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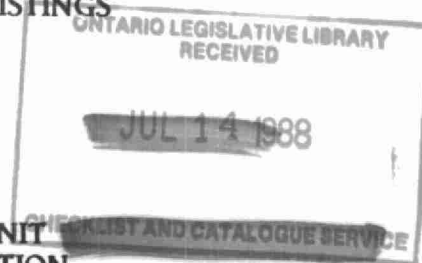
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ACIDIC PRECIPITATION IN ONTARIO STUDY

1985 DAILY PRECIPITATION CHEMISTRY LISTINGS



ATMOSPHERIC PROCESSES STUDIES UNIT
AIR QUALITY AND METEOROLOGY SECTION
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This report was prepared by Diane Green of the APIOS Atmospheric Deposition and Chemistry Program. However, the data themselves are a product of the combined efforts of many individuals. Precipitation samples were collected by a large number of site operators, whose names cannot be individually mentioned here, under the coordination of the APIOS environmental technicians Scott Kennedy (in Southwestern Region), Steve Elliott (in Southeastern Region), Wim Smits (in Northwestern Region), Jeff Columbus (Northeastern Region) and J.P. Varto (in Central Region). Sample handling was carried out by Dan Orr and Errol Butler, and overall network coordination by Bill Bardswick of the Air Resources Branch. Chemical analyses were performed at the Laboratory Services Branch under the coordination of Frank Tomassini and Barry Loescher. Invaluable clerical and computer assistance were provided by Koshy Mathew and William Chang respectively, of C.C and C. Computer Systems Inc. All enquiries regarding the reported data should be directed to Neville Reid, Coordinator, Atmospheric Deposition and Chemistry Program, at (416) 965-1634.

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Longwoods	02	1
Melbourne	01	13
North Easthope	03	22
Wellesley	04	34

PART IV CENTRAL REGION DAILY PRECIPITATION CHEMISTRY LISTINGS

<u>Station Name</u>	<u>Map Ref. No.</u>	
Balsam Lake	06	46
Dorset	08	58
Nithgrove	07	76
Raven Lake	05	88

PART V SOUTHEASTERN REGION DAILY PRECIPITATION CHEMISTRY LISTINGS

<u>Station Name</u>	<u>Map Ref. No.</u>	
Charleston Lake	11	103
Railton	10	115
Graham Lake	12	124
Wilmer	9A	133

PART VI NORTHWESTERN REGION DAILY PRECIPITATION CHEMISTRY LISTINGS

<u>Station Name</u>	<u>Map Ref. No.</u>	
Fernberg	16	136
Forbes Township	13	142
Quetico Centre	14	151

PART I
INTRODUCTION

INTRODUCTION

The data listed herein are a summary of the 1985 results acquired from the APIOS daily precipitation sampling network. All data presented in this report have been screened for validity. Remarks and qualifications have been appended to records, and/or results where necessary. The screening procedure involved checking each record for chemical analysis integrity (e.g., ionic balance, observed vs. theoretical conductance). Gross limit checks were applied to the results. Upper limit were determined as $M + 2S$ where median (M) and scale (S) represent robust estimates of mean and standard deviation respectively. Scale of the distribution was determined from interquartile distance, i.e. $S=0.74$ (3rd quartile - 1st quartile) based upon logarithmically transformed results. In a situation where the distribution is significantly bounded by reported detection limits, S may be estimated as follows, $S=1.48$ (3rd quartile - 2nd quartile). Lower gross limits were specified by the above method except for those parameters with minimum values at or near the detection limit (Mg, K and Na). For these parameters a lower gross limit of zero was utilized. The data were also screened for outliers statistically by applying the Dixon Ratio test to the highest and lowest values observed in each region on a daily basis. Outliers were determined at the 95% level of confidence. Records and/or results deemed unreliable were flagged but not deleted. Detailed description of the validation procedures as applied to this data set is available from the Ministry upon request.

Station Identification

The station identification is defined by four descriptive fields (e.g. Dorset/Daily/Aerochem #08). The first field refers to the sampling location. The second and third fields describe the sampling interval and the instrumentation used respectively. The last numeric field refers to the index code utilized on the location map.

Daily Precipitation Chemistry Listings

Sample type, as coded in the data listings, represents the best guess of the type of event which was sampled. All chemical analyses were done on unfiltered samples. Lab pH entries represent pH measurements at the main MOE Laboratory in Toronto while field pH entries represent measurements at regional laboratories. Remark codes (e.g., U,A) appended to individual results are defined in a later section. The tabulated results for "Free H"

were calculated from the reported Lab pH. Total hydrogen results, reported as "Total H", represent either a gran analysis titration or a titration of the sample with NaOH to an end point pH of 8.3.

Calculation of Equivalent Precipitation Depth (mm)

$$\text{Equivalent Precipitation Depth (mm)} = \frac{\text{Volume Collected (ml)} \times 15.6}{1000}$$

Calculation of Observed Sampling Efficiency

$$\% \text{ Efficiency} = \frac{\text{Equivalent Precipitation Depth (mm)} \times 100 \%}{\text{Gauge Depth (mm)}}$$

If the sample collection efficiency is less than 50% or greater than 120%, and if any of the field comment codes which affect sample collection efficiency (i.e. "F", "G", "H", "I", "J", "K", "L", "P", and "M") is appended to the sample record, then the sample collection efficiency is flagged as unreliable.

Field Comment Code Index

A - Insects in sample	H - Volume incorrect
B - Leaves in sample	I - Event(s) missed
C - Particulates in sample	J - Wet side open when not precipitating
D - Fibres in sample	K - No precipitation collected
E - Sample not submitted	L - Part of event missed
F - Sampler malfunctioned	M - Dry side open when precipitating
G - Sample spilled or leaked	P - Gauge depth incorrect
	Q - Other

Office Comment Code Index

C - Poor calculated vs. observed conductance comparison	Y - Collected sample remained in sampler in excess of 24 hours with event(s) only occurred in the first 24 hours
J - pH Large	Y2 - Sampling period equals to two days
H - Poor calculated vs. observed pH comparison	Y3 - Sampling period equals to three days
	Y4 - Sampling period equals to four days
M - Poor ionic balance	Y5 - Sampling period equals to five days
N - Abnormal sample collection efficiency	Z - Non-standard collection period with one or more events collected after 24 hours
T - Free H^+ exceeds total H^+	

Result Remark Code Index

>	- actual results greater than value reported
<	- actual result less than value reported
T	- actual result less than criterion of detection
W	- no response, minimum possible results reported
A	- approximate value
U	- unreliable result
LG	- exceedance of Lower Gross Limit Checks
UG	- exceedance of Upper Gross Limit checks
D	- outlier of Dixon Ratio Test
B	- exceedance of Gross Limit Checks and Outlier of Dixon Ratio Tests

PART II

STATION DESCRIPTION AND LOCATION MAP

TABLE 1

APIOS EVENT WET/DRY DEPOSITION NETWORK SITE LOCATIONS

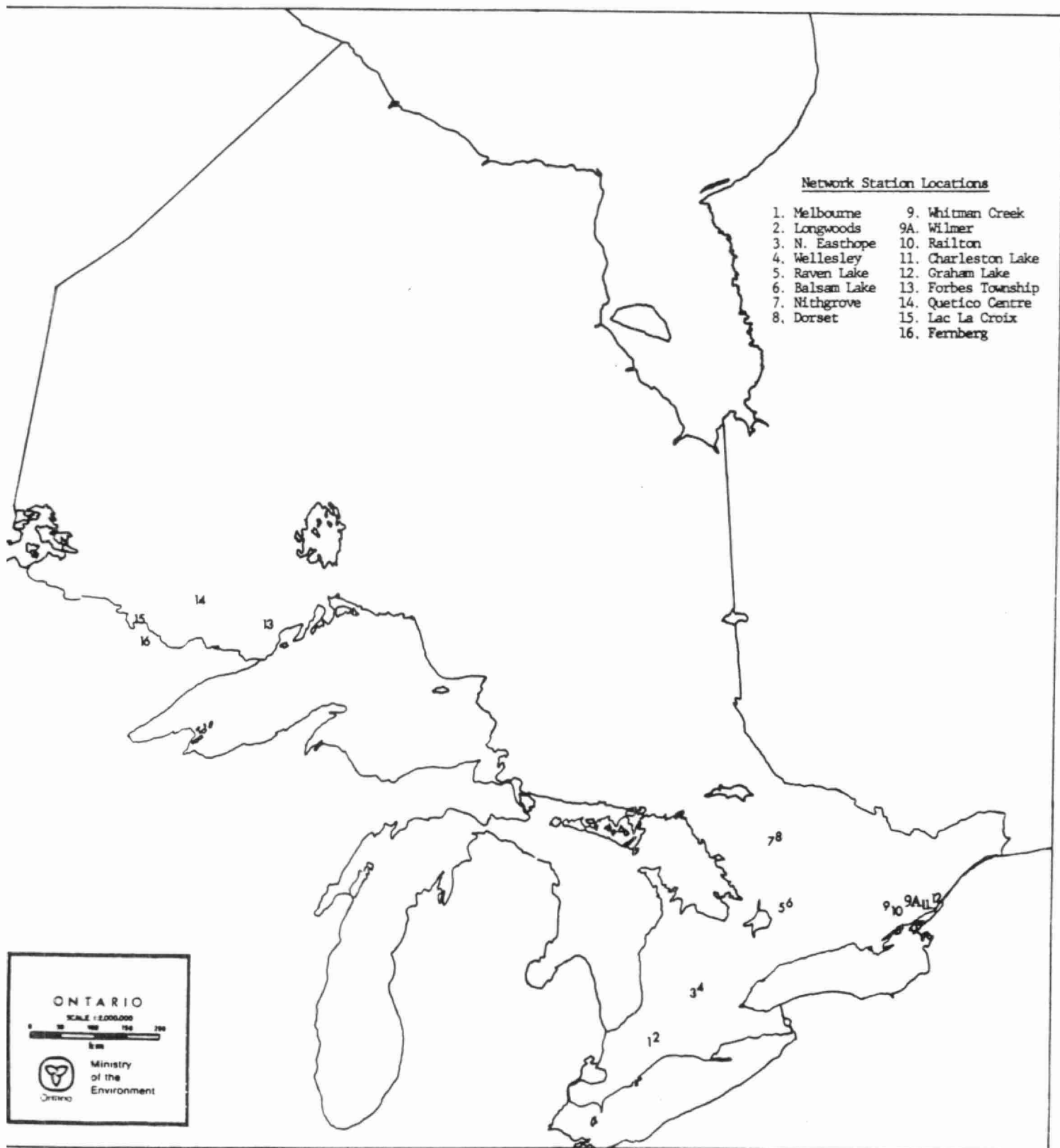
<u>AREA</u>	<u>MOE REGION</u>	<u>STATION NAME</u>	<u>INSTRUMENTATION</u>	<u>ELEVATION</u> (m above MSL)	<u>LATITUDE</u> (North)	<u>LONGITUDE</u> (West)	<u>UTM COORDINATES</u> (Northing) (Easting)	
London	Southwestern	Longwoods	Wet and Dry	239	42°53'	81°29'	4747850	460700
		Melbourne	Wet	213	42°47'	81°33'	4736850	454600
		North Easthope	Wet	375	43°24'	80°53'	4805650	508650
		Wellesley	Wet	344	43°28'	80°46'	4812650	519500
Dorset	Central	Dorset	Wet and Dry	320	45°13'	78°56'	5009650	662400
		Nithgrove	Wet	325	45°12'	79°04'	5006800	651600
		Balsam Lake	Wet	259	44°38'	78°51'	4943400	670070
		Raven Lake	Wet	274	44°37'	78°54'	4941600	665750
Kingston	Southeastern	Charleston Lake	Wet and Dry	92	44°30'	76°03'	4927500	417150
		Graham Lake	Wet	130	44°35'	75°52'	4936750	431450
		Railton	Wet	156	44°23'	76°36'	4914700	373200
		Whitman Creek*	Wet	137	44°29'	76°49'	4927200	355100
		Wilmer*	Wet	145	44°27'	76°32'	4921500	378250
Atikokan	Northwestern	Fernberg	Wet and Dry	506	47°50'	91°52'	5316000	585000
		Forbes Twsp.	Wet	324	48°38'	89°37'	5388000	308000
		Quetico Centre	Wet	420	48°45'	91°12'	5399000	632000
		Lac La Croix*	Wet	368	48°21'	92°12'	5356000	558200

* Whitman Creek site removed from network November 1984; installed Wilmer October 1985 (replacing Whitman Creek)

Lac La Croix site removed from network March, 1984

Figure 1

APIOS Event Wet/Dry Deposition Network Station Locations



PART III

SOUTHWESTERN REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM

#02

PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.		PRECIP START/END HR. HR.		SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE	
JAN 2,85	JAN 1,85	1000	800	1000	1700	1	8.2	2	64067	2	1	98		
JAN 8,85	JAN 7,85	800	800	1500	1800	2	2.6	2	64069	2	1	22	N	
JAN 9,85	JAN 8,85	800	800	1800	2300	2	2.5	2	64071	2	1	69	CM	
JAN 15,85	JAN 14,85	800	800	2000	700	2	****	2	64073	2	1	****		
JAN 16,85	JAN 15,85	800	800	900	1200	2	2.0	2	64075	2	1	38	N	
JAN 17,85	JAN 16,85	800	800	1700	2100	2	9.1	2	64077	2	1	70		
JAN 18,85	JAN 17,85	800	800	1800	****	2	0.8	2	64079	2	1	46	N	
JAN 19,85	JAN 18,85	800	800	1000	1900	2	6.0	2	64081	2	1	89		
JAN 20,85	JAN 19,85	800	800	****	****	2	0.1	2	64083	2	1	405	N	
JAN 22,85	JAN 21,85	800	900	2000	700	2	4.2	2	64085	2	1	31	C	N
JAN 24,85	JAN 23,85	800	800	1100	1600	2	1.2	2	64087	2	1	****	K	
JAN 25,85	JAN 24,85	800	800	1300	****	2	4.2	2	64089	2	1	60	DC	
JAN 26,85	JAN 25,85	800	800	1900	400	2	10.0	2	64091	2	1	66		
JAN 30,85	JAN 29,85	800	800	1700	200	2	0.6	2	64093	2	1	88		
JAN 31,85	JAN 30,85	800	800	1600	700	2	1.6	2	64095	2	1	58		
FEB 1,85	JAN 31,85	800	800	900	1200	2	1.2	2	64097	2	1	85		
FEB 3,85	FEB 2,85	800	800	****	****	2	2.0	2	64099	2	1	63		
FEB 6,85	FEB 5,85	800	800	800	1700	2	4.4	2	64101	2	1	42	N	
FEB 7,85	FEB 6,85	800	800	800	1600	2	2.0	2	64103	2	1	59		
FEB 8,85	FEB 7,85	800	800	****	****	2	0.8	2	64105	2	1	48	N	
FEB 11,85	FEB 10,85	800	800	1800	800	2	3.8	2	64107	2	1	30	N	
FEB 12,85	FEB 11,85	800	800	2400	800	3	15.2	2	64109	2	1	68		
FEB 13,85	FEB 12,85	800	800	1000	1700	2	11.3	2	64111	2	1	63		
FEB 14,85	FEB 13,85	800	900	****	****	2	3.2	2	64113	2	1	14	N	
FEB 15,85	FEB 14,85	900	900	900	1300	2	1.6	2	64115	2	1	****	CE	
FEB 17,85	FEB 16,85	800	800	2000	****	2	2.6	2	64117	2	1	64		
FEB 19,85	FEB 18,85	800	800	1600	2000	2	1.0	2	64119	2	1	81		
FEB 22,85	FEB 21,85	800	800	1700	2100	1	11.4	2	64132	2	1	104		
FEB 23,85	FEB 22,85	800	900	1800	800	1	15.7	2	64130	2	1	101		
FEB 24,85	FEB 23,85	900	900	900	300	1	24.6	2	64128	2	1	119		
FEB 25,85	FEB 24,85	900	800	1000	1700	1	2.6	2	64126	2	1	109		
FEB 27,85	FEB 26,85	800	800	****	****	1	10.0	2	64124	2	1	75	CD	
MAR 2,85	MAR 1,85	800	800	2000	100	1	0.2	2	64122	2	1	265	N	
MAR 5,85	MAR 4,85	800	800	800	1800	3	28.6	2	64138	2	1	92		
MAR 8,85	MAR 7,85	800	800	1830	100	1	1.4	2	64139	2	1	121	C	N
MAR 12,85	MAR 11,85	800	830	1500	100	3	4.1	2	64140	2	1	95		
MAR 13,85	MAR 12,85	830	830	****	****	2	2.0	2	64141	2	1	81		
MAR 17,85	MAR 16,85	800	900	****	****	3	1.4	2	64142	2	1	55		
MAR 24,85	MAR 23,85	700	1600	****	****	3	14.2	2	64143	2	1	154	N	
MAR 28,85	MAR 27,85	800	800	600	800	1	14.0	2	64147	2	1	102		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM

#02

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 2,85	JAN 1,85	517.0	11.8	*****	4.75	0.0392	0.0385	1.05	0.11
JAN 8,85	JAN 7,85	37.0	40.2	*****	UG 7.08	LG 0.0220	LG 0.0178	6.05	1.08
JAN 9,85	JAN 8,85	112.0	LG 6.3	*****	UG 7.03	LG 0.0172	LG 0.0168	LG 0.40	LG 0.10
JAN 15,85	JAN 14,85	636.0	LG 6.5	*****	UG 6.32	LG 0.0172	LG 0.0168	0.85	0.17
JAN 16,85	JAN 15,85	49.0	LG 5.7	*****	UG 6.64	*****	LG 0.0138	0.65	LG 0.05
JAN 17,85	JAN 16,85	414.0	15.6	*****	4.52	*****	0.0452	LG 0.50	0.48
JAN 18,85	JAN 17,85	24.0	*****	*****	4.15	0.1000	0.1000	*****	*****
JAN 19,85	JAN 18,85	346.0	23.5	*****	4.33	*****	0.0645	0.60	0.63
JAN 20,85	JAN 19,85	26.0	*****	*****	UG 6.76	LG 0.0156	LG 0.0163	*****	*****
JAN 22,85	JAN 21,85	84.0	21.2	*****	UG 6.91	*****	LG 0.0144	2.20	0.55
JAN 24,85	JAN 23,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 25,85	JAN 24,85	162.0	25.6	4.25	4.39	*****	0.0632	0.80	0.85
JAN 26,85	JAN 25,85	429.0	LG 7.8	UG 4.90	5.01	*****	0.0303	0.80	0.13
JAN 30,85	JAN 29,85	34.0	*****	*****	4.21	*****	0.1000	*****	*****
JAN 31,85	JAN 30,85	60.0	52.5	*****	4.01	*****	0.1280	1.60	1.36
FEB 1,85	JAN 31,85	66.0	*****	*****	*****	*****	*****	*****	*****
FEB 3,85	FEB 2,85	82.0	14.0	*****	4.73	*****	0.0374	0.65	0.42
FEB 6,85	FEB 5,85	120.0	45.8	*****	4.02	*****	0.1160	1.45	1.36
FEB 7,85	FEB 6,85	76.0	61.0	*****	3.90	*****	0.1480	1.05	1.79
FEB 8,85	FEB 7,85	25.0	*****	*****	4.14	0.1010	0.1020	*****	*****
FEB 11,85	FEB 10,85	74.0	25.8	*****	4.33	*****	0.0658	1.10	0.66
FEB 12,85	FEB 11,85	669.0	24.2	4.29	4.29	*****	0.0668	1.45	D 0.45
FEB 13,85	FEB 12,85	457.0	21.0	4.35	4.40	*****	0.0617	1.10	0.45
FEB 14,85	FEB 13,85	29.0	*****	*****	4.22	*****	0.0822	*****	*****
FEB 15,85	FEB 14,85	*****	*****	*****	*****	*****	*****	*****	*****
FEB 17,85	FEB 16,85	107.0	UG 95.0	*****	3.76	*****	UG 0.2160	D 5.90	UG 2.56
FEB 19,85	FEB 18,85	52.0	> 100.0	*****	LG 3.67	*****	UG 0.2460	6.15	UG 3.15
FEB 22,85	FEB 21,85	766.0	45.0	3.87	4.02	*****	0.1170	3.50	0.65
FEB 23,85	FEB 22,85	1018.0	24.2	4.21	4.30	*****	0.0695	1.70	0.40
FEB 24,85	FEB 23,85	1885.0	27.0	4.20	4.29	*****	0.0701	2.40	0.35
FEB 25,85	FEB 24,85	183.0	43.0	4.01	4.07	*****	0.1050	4.25	0.61
FEB 27,85	FEB 26,85	485.0	36.5	4.15	4.18	*****	0.0900	2.95	0.85
MAR 2,85	MAR 1,85	34.0	UG 89.3	*****	3.95	*****	0.1620	UG 9.65	UG 2.49
MAR 5,85	MAR 4,85	1703.0	25.0	4.31	4.35	*****	0.0636	2.75	0.26
MAR 8,85	MAR 7,85	109.0	> 100.0	*****	LG 3.46	*****	UG 0.4000	UG 14.00	UG 5.15
MAR 12,85	MAR 11,85	251.0	39.0	4.05	4.17	*****	0.0892	3.65	0.72
MAR 13,85	MAR 12,85	105.0	8.8	*****	4.99	*****	0.0258	1.25	0.15
MAR 17,85	MAR 16,85	50.0	72.4	*****	UG 7.18	*****	LG 0.0196	UG 9.70	UG 3.46
MAR 24,85	MAR 23,85	1405.0	22.6	4.30	4.49	*****	0.0557	2.30	0.50
MAR 28,85	MAR 27,85	924.0	19.7	4.34	4.55	*****	0.0535	2.45	0.28

1
2
1

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM		#02		PAGE : 3					
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L	
JAN 2,85	JAN 1,85	0.04	0.06	0.015	<T 0.005	<W 0.005	0.110	0.0178	
JAN 8,85	JAN 7,85	*****	0.75	*****	*****	*****	1.000	LG 0.0001	
JAN 9,85	JAN 8,85	0.62	0.22	0.090	0.175	0.095	0.085	LG 0.0001	
JAN 15,85	JAN 14,85	0.57	0.15	0.085	0.040	0.060	0.135	LG 0.0005	
JAN 16,85	JAN 15,85	*****	0.29	*****	*****	*****	LG 0.005	LG 0.0002	
JAN 17,85	JAN 16,85	0.19	0.22	0.030	<T 0.010	0.060	LG 0.030	0.0302	
JAN 18,85	JAN 17,85	*****	*****	*****	*****	*****	*****	0.0708	
JAN 19,85	JAN 18,85	0.08	0.22	<T 0.015	<T 0.015	0.035	0.090	0.0468	
JAN 20,85	JAN 19,85	*****	*****	*****	*****	*****	*****	LG 0.0002	
JAN 22,85	JAN 21,85	> 2.00	0.86	> 0.500	0.090	0.330	0.085	LG 0.0001	
JAN 24,85	JAN 23,85	*****	*****	*****	*****	*****	*****	*****	
JAN 25,85	JAN 24,85	0.54	0.50	0.080	0.085	0.085	0.105	0.0407	
JAN 26,85	JAN 25,85	0.22	0.19	0.035	0.040	0.110	0.070	0.0098	
JAN 30,85	JAN 29,85	*****	*****	*****	*****	*****	*****	0.0617	
JAN 31,85	JAN 30,85	*****	1.02	*****	*****	*****	0.135	0.0977	
FEB 1,85	JAN 31,85	*****	*****	*****	*****	*****	*****	*****	
FEB 3,85	FEB 2,85	0.34	0.28	0.050	0.035	0.145	LG 0.040	0.0186	
FEB 6,85	FEB 5,85	0.38	0.60	0.065	0.050	0.220	0.135	0.0955	
FEB 7,85	FEB 6,85	0.40	UG 1.37	0.045	0.080	0.315	0.305	0.1259	
FEB 8,85	FEB 7,85	*****	*****	*****	*****	*****	*****	0.0724	
FEB 11,85	FEB 10,85	*****	0.40	*****	*****	*****	0.070	0.0468	
FEB 12,85	FEB 11,85	0.06	0.18	<T 0.010	<W 0.005	0.055	0.115	0.0513	
FEB 13,85	FEB 12,85	D 0.05	0.13	<T 0.010	0.050	0.030	0.065	0.0398	
FEB 14,85	FEB 13,85	*****	*****	*****	*****	*****	*****	0.0603	
FEB 15,85	FEB 14,85	*****	*****	*****	*****	*****	*****	*****	
FEB 17,85	FEB 16,85	0.88	0.81	0.175	0.115	0.315	D 1.100	0.1738	
FEB 19,85	FEB 18,85	*****	UG 1.54	*****	*****	*****	0.810	UG 0.2138	
FEB 22,85	FEB 21,85	0.16	0.33	0.025	0.060	0.145	0.360	0.0955	
FEB 23,85	FEB 22,85	0.09	0.16	<T 0.015	0.030	0.080	0.260	0.0501	
FEB 24,85	FEB 23,85	0.12	0.45	0.045	0.045	0.280	0.260	0.0513	
FEB 25,85	FEB 24,85	D 0.27	D 0.40	0.035	0.150	0.160	0.570	0.0851	
FEB 27,85	FEB 26,85	0.21	0.23	0.040	0.060	0.065	0.700	0.0661	
MAR 2,85	MAR 1,85	*****	U 2.17	*****	*****	*****	*****	0.1122	
MAR 5,85	MAR 4,85	0.16	0.17	0.050	0.025	0.030	0.320	0.0447	
MAR 8,85	MAR 7,85	UG 2.43	1.01	UG 0.345	0.220	0.355	UG 2.550	UG 0.3467	
MAR 12,85	MAR 11,85	0.19	0.38	0.045	0.250	0.155	0.510	0.0676	
MAR 13,85	MAR 12,85	0.23	0.13	0.055	0.055	0.030	0.095	0.0102	
MAR 17,85	MAR 16,85	*****	UG 1.30	*****	*****	*****	UG 2.500	LG 0.0001	
MAR 24,85	MAR 23,85	0.41	0.16	0.095	<W 0.005	0.040	0.390	0.0324	
MAR 28,85	MAR 27,85	0.27	0.10	0.050	0.025	0.045	0.335	0.0282	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM

#02

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
MAR 29,85	MAR 28,85	800 1000	800 1100	1	5.8	2	64149	2	1	117	
MAR 31,85	MAR 30,85	800 900	700 900	1	4.2	2	64151	2	1	122	NJ
APR 1,85	MAR 31,85	900 800	1000 1800	1	20.6	2	64153	2	1	110	
APR 3,85	APR 2,85	800 800	1800 600	2	9.1	2	64155	2	1	89	
APR 5,85	APR 4,85	800 800	2130 700	1	3.2	2	64157	2	1	113	CD H
APR 6,85	APR 5,85	800 800	**** *	1	9.2	2	64159	2	1	102	
APR 7,85	APR 6,85	800 900	**** *	3	****	2	64161	2	1	****	
APR 8,85	APR 7,85	900 800	1800 2400	2	4.6	2	64163	2	1	75	
APR 9,85	APR 8,85	800 800	2300 300	1	1.8	2	64165	2	1	220	N
APR 11,85	APR 10,85	800 800	2400 600	1	3.8	2	64167	2	1	107	C
APR 13,85	APR 12,85	800 900	1800 2100	1	0.8	2	64168	2	1	181	B N
APR 20,85	APR 19,85	800 800	**** *	1	5.4	1	64170	2	1	99	ACD
APR 25,85	APR 24,85	800 800	1500 1800	1	4.4	1	64172	2	1	95	
APR 28,85	APR 27,85	800 900	230 *	1	1.0	1	64174	2	1	76	C
MAY 5,85	MAY 4,85	800 1100	**** *	1	1.2	1	64176	2	1	67	CQ
MAY 6,85	MAY 5,85	1100 800	1800 600	1	6.6	1	64178	2	1	72	G
MAY 13,85	MAY 12,85	800 800	**** *	1	4.4	1	64180	2	1	95	J
MAY 16,85	MAY 15,85	800 800	2100 200	1	3.8	1	64184	2	1	91	CD
MAY 20,85	MAY 19,85	800 800	1600 2000	1	13.0	1	64186	2	1	101	G JH
MAY 27,85	MAY 26,85	800 800	2400 300	1	6.8	1	64190	2	1	90	CD
MAY 28,85	MAY 27,85	800 800	1700 400	1	4.6	1	64192	2	1	87	JH
MAY 31,85	MAY 30,85	800 800	200 600	1	6.8	1	64194	2	1	97	C
JUN 1,85	MAY 31,85	800 800	800 1000	1	4.1	1	64196	2	1	87	
JUN 9,85	JUN 8,85	800 1000	300 430	1	5.4	1	64198	2	1	98	
JUN 12,85	JUN 11,85	800 800	1400 1800	1	7.0	1	64200	2	1	98	
JUN 16,85	JUN 15,85	800 800	1700 300	1	9.8	1	64202	2	1	98	C
JUN 17,85	JUN 16,85	800 800	1500 1800	1	4.6	1	64204	2	1	99	
JUN 18,85	JUN 17,85	800 800	1600 2000	1	16.8	1	64206	2	1	76	
JUN 19,85	JUN 18,85	800 800	**** *	1	0.6	1	64210	2	1	158	D N
JUN 23,85	JUN 22,85	800 900	**** *	1	5.8	1	64212	2	1	48	FM
JUL 3,85	JUL 2,85	800 800	900 1000	1	2.0	1	64215	2	1	101	C H
JUL 6,85	JUL 5,85	800 830	1800 2200	1	6.0	1	64217	2	1	98	HC
JUL 7,85	JUL 6,85	830 800	900 1100	1	4.2	1	64219	2	1	13	FM
JUL 8,85	JUL 7,85	800 800	2300 300	1	16.0	1	64221	2	1	101	
JUL 10,85	JUL 9,85	800 800	600 800	1	1.0	1	64225	2	1	92	H
JUL 14,85	JUL 13,85	800 900	730 900	1	9.8	1	64227	2	1	99	CD H
JUL 16,85	JUL 15,85	800 800	900 1100	1	5.6	1	64229	2	1	92	C
JUL 20,85	JUL 19,85	800 800	1700 1900	1	4.6	1	64231	2	1	52	FM
JUL 22,85	JUL 21,85	800 800	1200 1500	1	7.1	1	64233	2	1	****	EM
JUL 26,85	JUL 25,85	800 800	200 400	1	1.8	1	64235	2	1	19	G

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L	
MAR 29,85	MAR 28,85	435.0	17.3		4.49	4.80	*****	0.0400	2.80	0.27
MAR 31,85	MAR 30,85	331.0	5.0	LG	5.69	6.75	*****	LG 0.0156	LG 0.55	<T 0.05
APR 1,85	MAR 31,85	1453.0	17.0		4.33	4.52	*****	0.0515	1.85	0.15
APR 3,85	APR 2,85	525.0	14.6	D	4.64	4.76	*****	0.0443	1.15	0.43
APR 5,85	APR 4,85	232.0	43.2	UG	4.89	5.03	*****	0.0463	7.30	1.53
APR 6,85	APR 5,85	604.0	27.5		4.47	4.58	*****	0.0612	3.55	0.62
APR 7,85	APR 6,85	20.0	*****		*****	*****	*****	*****	*****	*****
APR 8,85	APR 7,85	223.0	41.9		4.17	4.18	*****	0.1100	3.20	0.99
APR 9,85	APR 8,85	254.0	35.3		4.28	4.33	*****	0.0790	2.50	1.12
APR 11,85	APR 10,85	263.0	36.0		4.26	4.30	*****	0.0785	2.55	1.15
APR 13,85	APR 12,85	93.0	> 100.0		*****	LG 3.42	*****	UG 0.4620	UG 21.50	UG 3.60
APR 20,85	APR 19,85	344.0	37.3	UG	6.61	7.15	*****	0.0225	7.10	1.01
APR 25,85	APR 24,85	270.0	61.0		4.05	4.09	*****	0.1250	7.20	1.35
APR 28,85	APR 27,85	49.0	53.5		*****	UG 6.81	*****	0.0248	UG 11.70	1.44
MAY 5,85	MAY 4,85	52.0	UG 95.5		*****	UG 7.59	*****	LG 0.0144	UG 12.80	UG 3.40
MAY 6,85	MAY 5,85	308.0	*****		4.39	4.53	*****	0.0570	5.35	0.91
MAY 13,85	MAY 12,85	269.0	20.9	UG	5.18	UG 6.48	*****	0.0215	3.90	0.62
MAY 16,85	MAY 15,85	224.0	> 100.0		3.70	3.71	*****	0.2540	9.10	1.63
MAY 20,85	MAY 19,85	842.0	16.4	UG	5.47	UG 6.09	*****	0.0226	3.05	0.41
MAY 27,85	MAY 26,85	396.0	43.7		4.31	4.40	*****	0.0787	6.95	1.18
MAY 28,85	MAY 27,85	258.0	15.8	UG	5.07	UG 5.68	*****	0.0252	2.00	0.52
MAY 31,85	MAY 30,85	423.0	56.7		4.00	4.00	*****	0.1380	5.75	0.84
JUN 1,85	MAY 31,85	230.0	48.7		4.07	4.02	*****	0.1100	5.95	0.57
JUN 9,85	JUN 8,85	342.0	20.7	B	6.20	B 6.70	*****	LG 0.0171	3.55	0.81
JUN 12,85	JUN 11,85	443.0	19.1		4.42	4.51	*****	0.0478	2.75	0.39
JUN 16,85	JUN 15,85	620.0	28.2		4.05	4.13	*****	0.1060	3.90	0.47
JUN 17,85	JUN 16,85	294.0	41.1		4.12	4.17	*****	0.0969	4.20	0.66
JUN 18,85	JUN 17,85	828.0	34.8		4.12	4.14	*****	0.0914	3.60	0.45
JUN 19,85	JUN 18,85	61.0	18.9		*****	UG 6.57	*****	LG 0.0183	3.40	0.57
JUN 23,85	JUN 22,85	182.0	31.9		4.24	4.29	*****	0.0765	4.40	0.73
JUL 3,85	JUL 2,85	130.0	27.2		*****	UG 6.51	*****	LG 0.0176	4.85	0.99
JUL 6,85	JUL 5,85	380.0	14.5		4.46	4.66	*****	0.0452	2.50	0.41
JUL 7,85	JUL 6,85	36.0	LG 7.8		*****	UG 6.93	*****	LG 0.0156	1.20	0.19
JUL 8,85	JUL 7,85	1037.0	25.7		4.32	4.47	*****	0.0618	3.30	0.48
JUL 10,85	JUL 9,85	59.0	39.0		*****	4.60	*****	0.0676	5.10	1.46
JUL 14,85	JUL 13,85	627.0	24.2		4.44	4.72	*****	0.0492	3.95	0.51
JUL 16,85	JUL 15,85	333.0	64.8		3.84	3.88	*****	0.1720	6.50	0.87
JUL 20,85	JUL 19,85	155.0	44.5		4.10	4.19	*****	0.0923	5.50	0.90
JUL 22,85	JUL 21,85	*****	*****		*****	*****	*****	*****	*****	*****
JUL 26,85	JUL 25,85	22.0	*****		*****	*****	*****	*****	*****	*****

100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900 10000

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM

#02

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JUL 31,85	JUL 30,85	800 800	2400 800	1	4.6	1	64237	2	1	71	
AUG 6,85	AUG 5,85	800 800	1800 2400	1	7.5	1	64239	2	1	75	C
AUG 8,85	AUG 7,85	800 800	900 1100	1	12.8	1	64241	2	1	94	
AUG 11,85	AUG 10,85	900 800	1800 1900	1	5.8	1	64245	2	1	101	D
AUG 14,85	AUG 13,85	800 1000	400 900	1	6.4	1	64247	2	1	97	C
AUG 16,85	AUG 14,85	1000 1000	****	1	22.8	1	64249	2	1	100	C
AUG 24,85	AUG 23,85	800 900	400 900	1	18.2	1	64252	2	1	99	
AUG 25,85	AUG 24,85	900 800	1800 2200	1	24.2	1	64256	2	1	102	
AUG 26,85	AUG 25,85	800 800	****	1	16.2	1	64258	2	1	103	
AUG 27,85	AUG 26,85	800 800	1100 1230	1	25.0	1	64260	2	1	128	N
AUG 31,85	AUG 30,85	800 800	900 1000	1	1.1	1	64262	2	1	205	N
SEP 2,85	SEP 1,85	800 800	1900 2000	1	2.8	1	64264	2	1	84	
SEP 6,85	SEP 4,85	800 800	****	1	14.6	1	64266	2	1	98	Z
SEP 7,85	SEP 6,85	800 800	800 900	1	2.0	1	64268	2	1	60	C
SEP 8,85	SEP 7,85	800 900	100 230	1	59.2	1	64270	2	1	90	BD
SEP 9,85	SEP 8,85	900 800	1800 200	1	4.4	1	64274	2	1	91	
SEP 19,85	SEP 18,85	800 800	1500 1600	1	2.2	1	64277	2	1	54	H
SEP 24,85	SEP 23,85	800 800	1800 2200	1	24.0	1	64279	2	1	97	
SEP 26,85	SEP 25,85	800 800	200 800	1	3.0	1	64281	2	1	93	
SEP 27,85	SEP 26,85	800 800	800 1100	1	2.2	1	64283	2	1	75	
OCT 1,85	SEP 30,85	800 1200	1600 200	1	5.4	1	64285	2	1	90	J
OCT 5,85	OCT 4,85	800 800	****	1	3.6	1	64297	2	1	79	CQ
OCT 6,85	OCT 5,85	800 800	1000 1100	1	1.4	1	64299	2	1	65	JHM
OCT 9,85	OCT 8,85	800 800	2200 800	1	9.4	1	64287	2	1	71	H
OCT 11,85	OCT 10,85	800 800	800 1100	1	3.6	1	64289	2	1	80	
OCT 13,85	OCT 12,85	800 800	900 2200	1	23.6	1	64291	2	1	93	
OCT 15,85	OCT 14,85	800 800	2400 600	1	2.6	1	64295	2	1	94	
OCT 19,85	OCT 18,85	800 800	1600 800	1	47.6	1	64301	2	1	109	
OCT 20,85	OCT 19,85	800 800	800 1100	1	2.0	1	64305	2	1	55	
OCT 24,85	OCT 23,85	800 800	100 600	1	2.6	1	64307	2	1	96	
NOV 3,85	NOV 2,85	800 900	800 900	1	14.8	1	64309	2	1	102	
NOV 4,85	NOV 3,85	900 800	900 1600	1	17.6	1	64311	2	1	95	
NOV 5,85	NOV 4,85	800 800	1300 1800	1	19.2	1	64315	2	1	100	
NOV 7,85	NOV 6,85	800 800	400 800	1	3.5	1	64317	2	1	85	
NOV 8,85	NOV 7,85	800 800	800 1100	1	3.2	1	64319	2	1	79	HM
NOV 10,85	NOV 9,85	800 800	1500 2000	1	25.0	1	64321	2	1	101	
NOV 11,85	NOV 10,85	800 800	1000 1200	1	4.2	1	64323	2	1	96	D
NOV 13,85	NOV 12,85	800 800	2400 200	1	15.2	1	64325	2	1	90	
NOV 14,85	NOV 13,85	800 900	****	1	1.4	1	64327	2	1	132	N
NOV 16,85	NOV 15,85	800 800	400 800	1	4.0	1	64329	2	1	109	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM				#02	PAGE : 8					
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L	
JUL 31,85	JUL 30,85	212.0	23.0	*****	4.88	*****	0.0411	3.40	0.54	
AUG 6,85	AUG 5,85	364.0	70.5	3.80	3.88	*****	0.1870	7.55	0.85	
AUG 8,85	AUG 7,85	778.0	25.9	4.32	4.40	*****	0.0686	2.55	0.43	
AUG 11,85	AUG 10,85	376.0	54.3	3.95	3.98	*****	0.1450	6.10	0.59	
AUG 14,85	AUG 13,85	400.0	31.0	4.24	4.30	*****	0.0902	3.00	0.47	
AUG 16,85	AUG 14,85	1465.0	31.9	4.18	4.21	*****	0.0922	2.75	0.37	
AUG 24,85	AUG 23,85	1156.0	> 100.0	LG 3.60	3.69	*****	UG 0.2910	D 8.80	1.78	
AUG 25,85	AUG 24,85	1597.0	27.2	4.29	4.32	*****	0.0769	2.20	0.35	
AUG 26,85	AUG 25,85	1079.0	16.6	4.48	4.52	*****	0.0520	1.20	0.20	
AUG 27,85	AUG 26,85	2066.0	36.1	D 4.17	4.18	*****	0.0973	3.15	0.37	
AUG 31,85	AUG 30,85	145.0	43.9	4.24	4.28	*****	0.0921	6.70	0.65	
SEP 2,85	SEP 1,85	151.0	43.4	4.08	4.16	*****	0.1070	4.30	0.70	
SEP 6,85	SEP 4,85	926.0	39.3	4.20	4.22	*****	0.0940	4.15	0.62	
SEP 7,85	SEP 6,85	78.0	21.1	*****	4.30	*****	0.0821	2.60	0.50	I
SEP 8,85	SEP 7,85	3416.0	28.0	4.29	4.37	*****	0.0737	3.00	0.42	
SEP 9,85	SEP 8,85	258.0	21.8	4.40	4.57	*****	0.0520	1.80	0.63	∞
SEP 19,85	SEP 18,85	77.0	65.0	*****	4.12	*****	0.1300	8.45	1.43	I
SEP 24,85	SEP 23,85	1504.0	12.5	4.58	4.74	*****	0.0405	1.35	0.16	
SEP 26,85	SEP 25,85	180.0	69.9	3.81	3.87	*****	0.1740	7.20	0.88	
SEP 27,85	SEP 26,85	106.0	39.3	*****	4.18	*****	0.0977	4.10	0.50	
OCT 1,85	SEP 30,85	313.0	43.3	4.06	4.14	*****	0.1020	4.40	0.83	
OCT 5,85	OCT 4,85	184.0	37.6	UG 6.11	6.98	*****	0.0228	7.75	1.25	
OCT 6,85	OCT 5,85	59.0	16.8	*****	UG 5.19	*****	0.0270	3.20	0.29	
OCT 9,85	OCT 8,85	429.0	45.5	4.09	4.21	*****	0.1070	6.25	0.59	
OCT 11,85	OCT 10,85	185.0	37.0	4.18	4.30	*****	0.0873	4.10	0.66	
OCT 13,85	OCT 12,85	1415.0	36.2	4.12	4.21	*****	0.0999	3.75	0.33	
OCT 15,85	OCT 14,85	158.0	38.7	4.13	4.20	*****	0.1010	3.45	0.44	
OCT 19,85	OCT 18,85	3340.0	22.2	4.36	4.44	*****	0.0587	2.15	0.38	
OCT 20,85	OCT 19,85	71.0	12.5	*****	4.79	*****	0.0351	1.40	0.22	
OCT 24,85	OCT 23,85	160.0	D 49.4	*****	4.05	*****	0.1240	4.15	0.85	
NOV 3,85	NOV 2,85	974.0	22.7	4.41	4.45	*****	0.0581	1.95	0.39	
NOV 4,85	NOV 3,85	1076.0	26.3	4.26	4.29	*****	0.0729	1.50	0.45	
NOV 5,85	NOV 4,85	1237.0	10.6	4.73	4.79	*****	0.0332	0.65	0.17	
NOV 7,85	NOV 6,85	191.0	55.2	*****	3.94	*****	0.1480	3.90	1.21	
NOV 8,85	NOV 7,85	163.0	23.5	*****	4.34	*****	0.0702	1.80	LG 0.04	
NOV 10,85	NOV 9,85	1632.0	26.0	4.24	4.28	*****	0.0757	*****	LG 0.05	
NOV 11,85	NOV 10,85	261.0	22.1	4.43	4.45	*****	0.0581	2.40	0.46	
NOV 13,85	NOV 12,85	883.0	25.4	4.26	4.29	*****	0.0733	2.20	0.36	
NOV 14,85	NOV 13,85	119.0	34.4	*****	4.17	*****	0.0933	2.95	0.47	
NOV 16,85	NOV 15,85	282.0	14.2	4.64	4.62	*****	0.0452	1.30	0.12	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM

#02

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUL 31,85	JUL 30,85	0.57	0.62	0.100	UG 0.335	0.345	0.675	0.0132
AUG 6,85	AUG 5,85	0.47	0.27	0.080	0.085	0.075	0.490	0.1318
AUG 8,85	AUG 7,85	0.20	<T 0.04	0.040	0.020	<T 0.020	0.375	0.0398
AUG 11,85	AUG 10,85	0.41	0.18	0.075	0.045	0.030	0.410	0.1047
AUG 14,85	AUG 13,85	0.36	0.32	0.065	0.150	0.145	0.185	0.0501
AUG 16,85	AUG 14,85	0.10	0.06	0.015	0.020	0.020	0.150	0.0617
AUG 24,85	AUG 23,85	D 0.59	D 0.31	0.125	0.035	0.030	0.465	0.2042
AUG 25,85	AUG 24,85	0.07	<T 0.06	<T 0.005	<T 0.005	<W 0.005	0.140	0.0479
AUG 26,85	AUG 25,85	0.04	<T 0.05	<W 0.005	<T 0.005	<T 0.005	LG 0.050	0.0302
AUG 27,85	AUG 26,85	0.07	0.10	<T 0.010	0.030	<T 0.015	0.220	0.0661
AUG 31,85	AUG 30,85	0.89	B 0.91	D 0.150	UG 0.485	B 0.480	0.820	0.0525
SEP 2,85	SEP 1,85	0.64	0.18	0.085	0.060	0.055	0.335	0.0692
SEP 6,85	SEP 4,85	0.52	0.33	0.075	0.080	0.150	0.430	0.0603
SEP 7,85	SEP 6,85	0.34	0.22	0.040	0.160	0.135	0.155	0.0501
SEP 8,85	SEP 7,85	0.29	0.14	0.035	0.040	0.060	0.400	0.0427
SEP 9,85	SEP 8,85	0.46	D 0.31	0.065	0.105	0.160	0.280	0.0269
SEP 19,85	SEP 18,85	UG 3.03	UG 0.90	0.450	0.195	UG 0.455	0.610	0.0759
SEP 24,85	SEP 23,85	0.19	<T 0.06	0.030	0.045	0.035	LG 0.100	0.0182
SEP 26,85	SEP 25,85	0.57	0.42	0.085	0.140	0.185	0.555	0.1349
SEP 27,85	SEP 26,85	0.25	0.17	0.040	0.060	0.075	0.505	0.0661
OCT 1,85	SEP 30,85	0.54	0.17	0.110	0.065	0.095	0.550	0.0724
OCT 5,85	OCT 4,85	0.85	0.39	UG 0.580	UG 0.395	0.150	1.030	LG 0.0001
OCT 6,85	OCT 5,85	D 0.87	0.12	0.140	0.145	0.045	0.585	LG 0.0065
OCT 9,85	OCT 8,85	1.24	0.15	0.150	0.110	0.075	0.440	0.0617
OCT 11,85	OCT 10,85	0.64	0.20	D 0.080	0.075	0.165	0.490	0.0501
OCT 13,85	OCT 12,85	0.23	0.20	0.030	D 0.130	0.160	0.235	0.0617
OCT 15,85	OCT 14,85	0.19	D 0.20	0.020	D 0.150	0.180	0.210	0.0631
OCT 19,85	OCT 18,85	0.04	0.12	0.015	0.050	<T 0.020	0.360	0.0363
OCT 20,85	OCT 19,85	0.10	0.07	0.020	0.040	0.085	0.220	0.0162
OCT 24,85	OCT 23,85	0.32	0.39	0.040	UG 0.290	0.185	0.390	0.0891
NOV 3,85	NOV 2,85	0.27	0.10	0.050	D 0.040	0.040	0.150	0.0355
NOV 4,85	NOV 3,85	<T 0.03	0.08	0.015	0.040	0.040	0.090	0.0513
NOV 5,85	NOV 4,85	<T 0.03	<T 0.04	<T 0.005	<T 0.005	0.025	0.050	0.0162
NOV 7,85	NOV 6,85	0.37	0.26	0.065	0.050	0.045	0.445	0.1148
NOV 8,85	NOV 7,85	0.12	LG 0.01	0.020	0.020	0.110	0.305	0.0457
NOV 10,85	NOV 9,85	0.17	0.12	0.025	0.045	0.055	0.215	0.0525
NOV 11,85	NOV 10,85	0.63	<T 0.06	0.060	0.040	0.075	0.195	0.0355
NOV 13,85	NOV 12,85	0.17	0.22	0.020	0.085	0.105	0.225	0.0513
NOV 14,85	NOV 13,85	0.25	0.19	0.035	0.115	D 0.125	0.140	0.0676
NOV 16,85	NOV 15,85	0.15	0.07	0.020	0.040	0.100	0.055	0.0240

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM

#02

PAGE : 10

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
NOV 17,85	NOV 16,85	800 800	800 1500	1	4.8	1	64331	2	1	91	
NOV 19,85	NOV 18,85	800 800	1300 2000	1	13.8	1	64333	2	1	100	
NOV 20,85	NOV 19,85	800 800	1800 100	1	3.8	1	64335	2	1	84	
NOV 23,85	NOV 22,85	800 800	745 1200	3	5.8	2	64337	2	1	56	
NOV 26,85	NOV 25,85	800 800	2100 800	1	11.2	2	64339	2	1	87	
NOV 27,85	NOV 26,85	800 800	1000 1300	1	4.0	2	64341	2	1	97	
NOV 28,85	NOV 27,85	800 800	2400 400	2	6.2	2	64343	2	1	29	C NC
DEC 1,85	NOV 30,85	800 800	400 800	1	1.2	2	64345	2	1	63	
DEC 2,85	DEC 1,85	800 800	2000 400	2	8.2	2	64347	2	1	106	
DEC 3,85	DEC 2,85	800 800	900 1300	2	3.2	2	64349	2	1	47	NHCM
DEC 4,85	DEC 3,85	800 800	900 1100	2	1.8	2	64351	2	1	62	CM
DEC 6,85	DEC 5,85	800 800	1600 2400	2	6.0	2	64353	2	1	78	C C
DEC 11,85	DEC 10,85	800 800	2400 600	2	5.5	2	64355	2	1	99	C
DEC 12,85	DEC 11,85	800 800	1500 2300	2	7.2	2	64357	2	1	60	
DEC 14,85	DEC 13,85	800 800	2000 ****	2	4.8	2	64359	2	1	66	C JHCM
DEC 17,85	DEC 16,85	800 800	1200 1600	2	3.5	2	64361	2	1	60	BCD HCM
DEC 21,85	DEC 20,85	800 800	1900 2200	2	1.2	2	64363	2	1	53	BD
DEC 22,85	DEC 21,85	800 800	300 800	2	4.8	2	64365	2	1	57	HCM
DEC 23,85	DEC 22,85	800 800	1200 1600	2	3.2	2	64367	2	1	81	
DEC 25,85	DEC 24,85	800 800	800 1200	2	5.2	2	64369	2	1	85	
DEC 27,85	DEC 26,85	800 800	1900 400	2	11.6	2	64371	2	1	27	N
DEC 28,85	DEC 27,85	800 800	2000 ****	2	0.6	2	64372	2	1	78	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM				#02	PAGE : 11				
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 17,85	NOV 16,85	283.0	18.8	4.49	4.49	*****	*****	1.90	0.17
NOV 19,85	NOV 18,85	892.0	34.8	*****	4.17	*****	0.0974	3.25	0.21
NOV 20,85	NOV 19,85	207.0	24.6	*****	4.38	*****	0.0669	2.30	0.33
NOV 23,85	NOV 22,85	211.0	13.5	4.67	4.74	*****	0.0364	1.40	0.18
NOV 26,85	NOV 25,85	629.0	35.2	4.13	4.18	*****	0.0942	2.60	0.56
NOV 27,85	NOV 26,85	249.0	32.5	4.22	4.29	*****	0.0829	3.25	0.42
NOV 28,85	NOV 27,85	118.0	LG 6.1	*****	UG 5.33	*****	0.0211	LG 0.15	0.20
DEC 1,85	NOV 30,85	49.0	> 100.0	*****	LG 3.48	*****	UG 0.4270	UG 14.00	UG 3.85
DEC 2,85	DEC 1,85	561.0	26.8	4.26	4.31	*****	0.0740	2.20	0.35
DEC 3,85	DEC 2,85	97.0	12.8	*****	UG 7.50	*****	LG 0.0131	0.75	LG 0.07
DEC 4,85	DEC 3,85	72.0	13.2	*****	UG 7.46	*****	LG 0.0137	1.30	LG 0.09
DEC 6,85	DEC 5,85	300.0	16.0	4.49	4.49	*****	0.0531	1.35	0.45
DEC 11,85	DEC 10,85	352.0	76.2	3.84	3.81	*****	0.1880	4.70	1.82
DEC 12,85	DEC 11,85	277.0	22.2	4.41	4.39	*****	0.0601	1.65	0.34
DEC 14,85	DEC 13,85	204.0	8.1	UG 6.02	UG 7.18	*****	LG 0.0137	0.60	0.36
DEC 17,85	DEC 16,85	135.0	15.7	*****	UG 7.05	*****	0.0231	0.80	0.59
DEC 21,85	DEC 20,85	41.0	21.7	*****	UG 6.70	*****	LG 0.0188	1.35	1.27
DEC 22,85	DEC 21,85	178.0	LG 8.0	*****	4.81	*****	0.0365	LG 0.45	0.40
DEC 23,85	DEC 22,85	168.0	41.2	*****	4.16	*****	0.1120	2.95	0.99
DEC 25,85	DEC 24,85	285.0	34.8	*****	4.24	*****	0.0916	2.75	0.76
DEC 27,85	DEC 26,85	207.0	24.3	*****	4.41	*****	0.0666	1.20	0.70
DEC 28,85	DEC 27,85	30.0	27.5	*****	4.51	*****	0.0646	1.75	0.82

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AEROCHEM		#02		PAGE : 12					
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L	
NOV 17,85	NOV 16,85	0.17	0.21	0.030	0.165	0.125	0.130	0.0324	
NOV 19,85	NOV 18,85	0.08	0.28	0.035	D 0.070	0.185	0.065	0.0676	
NOV 20,85	NOV 19,85	0.16	0.26	0.055	0.040	0.150	0.135	0.0417	
NOV 23,85	NOV 22,85	0.19	0.17	0.050	0.020	0.100	0.110	0.0182	
NOV 26,85	NOV 25,85	0.16	0.23	0.040	0.055	0.065	0.195	0.0661	
NOV 27,85	NOV 26,85	0.26	0.37	0.060	D 0.165	D 0.225	0.205	0.0513	
NOV 28,85	NOV 27,85	0.16	0.07	0.020	0.025	0.070	<T 0.010	LG 0.0047	
DEC 1,85	NOV 30,85	*****	UG 1.69	*****	*****	*****	UG 2.150	UG 0.3311	
DEC 2,85	DEC 1,85	0.26	0.12	D 0.035	D 0.030	0.035	0.155	0.0490	
DEC 3,85	DEC 2,85	1.22	0.17	0.250	0.140	0.075	0.120	LG 0.0000	
DEC 4,85	DEC 3,85	UG 1.44	0.10	0.220	0.070	0.090	0.250	LG 0.0000	
DEC 6,85	DEC 5,85	0.43	0.46	0.060	0.080	0.125	0.210	0.0324	
DEC 11,85	DEC 10,85	0.46	0.61	0.050	0.180	0.155	0.900	0.1549	
DEC 12,85	DEC 11,85	0.15	0.32	0.025	0.110	0.115	0.145	0.0407	
DEC 14,85	DEC 13,85	0.42	0.15	0.085	0.025	0.080	0.140	LG 0.0001	
DEC 17,85	DEC 16,85	0.60	0.52	0.130	UG 1.300	0.115	0.225	LG 0.0001	
DEC 21,85	DEC 20,85	*****	1.02	*****	*****	*****	0.070	LG 0.0002	
DEC 22,85	DEC 21,85	0.57	0.09	0.080	0.030	0.080	LG 0.030	0.0155	
DEC 23,85	DEC 22,85	0.35	0.33	0.055	0.065	0.105	0.530	0.0692	
DEC 25,85	DEC 24,85	0.22	0.21	0.035	0.040	0.075	0.450	0.0575	
DEC 27,85	DEC 26,85	0.24	0.24	0.045	0.055	0.110	0.245	0.0389	
DEC 28,85	DEC 27,85	*****	1.01	*****	*****	*****	*****	0.0309	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM

#01

PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JAN 2,85	DEC 31,84	800 900	**** ****	1	36.8	2	61108	2	1	100	Z
JAN 8,85	JAN 7,85	800 800	**** ****	2	1.4	2	61109	2	1	33	N
JAN 15,85	JAN 14,85	800 800	**** ****	2	3.1	2	61110	2	1	21	N
JAN 17,85	JAN 16,85	800 800	**** ****	2	9.4	2	61111	2	1	66	
JAN 19,85	JAN 18,85	800 800	**** ****	2	5.8	2	61112	2	1	70	
JAN 22,85	JAN 21,85	800 800	**** ****	2	0.1	2	61113	2	1	****	
JAN 25,85	JAN 24,85	800 800	**** ****	2	5.0	2	61114	2	1	44	N
JAN 31,85	JAN 30,85	800 800	**** 800	2	1.7	2	61115	2	1	73	
FEB 6,85	FEB 5,85	800 800	2000 800	2	4.6	2	61117	2	1	33	N
FEB 7,85	FEB 6,85	800 800	**** ****	2	2.0	2	61118	2	1	62	
FEB 12,85	FEB 11,85	800 800	**** 800	2	16.5	2	61119	2	1	82	
FEB 13,85	FEB 12,85	800 800	800 1400	2	11.0	2	61120	2	1	78	
FEB 14,85	FEB 13,85	800 800	**** ****	2	****	2	61121	2	1	****	
FEB 22,85	FEB 21,85	800 800	**** ****	1	11.5	2	61126	2	1	93	
FEB 23,85	FEB 22,85	800 1000	300 1000	1	13.0	2	61125	2	1	152	N
FEB 24,85	FEB 23,85	1000 1000	1000 1400	1	21.5	2	61124	2	1	96	
FEB 25,85	FEB 24,85	1000 800	**** ****	1	1.3	2	61123	2	1	88	
FEB 27,85	FEB 26,85	800 800	**** 800	2	3.4	2	61122	2	1	132	N
MAR 5,85	MAR 4,85	800 800	**** ****	3	33.0	2	61127	2	1	88	
MAR 8,85	MAR 7,85	800 800	**** ****	1	1.2	2	61128	2	1	102	
MAR 11,85	MAR 10,85	800 800	**** ****	1	****	2	61129	2	1	****	
MAR 13,85	MAR 12,85	800 800	**** ****	2	1.1	2	61130	2	1	73	
MAR 24,85	MAR 23,85	800 800	**** ****	1	14.3	2	61132	2	1	112	
MAR 25,85	MAR 24,85	800 800	**** ****	1	2.1	2	61133	2	1	86	
MAR 28,85	MAR 27,85	800 800	600 800	1	15.9	2	61134	2	1	37	N
MAR 29,85	MAR 28,85	800 800	800 1200	1	4.5	2	61135	2	1	122	N
APR 1,85	MAR 31,85	800 800	**** ****	1	34.2	2	61136	2	1	104	
APR 3,85	APR 2,85	800 800	**** 800	1	7.9	2	61137	2	1	76	
APR 4,85	APR 3,85	800 800	**** ****	1	0.4	2	61138	2	1	101	
APR 5,85	APR 4,85	800 800	**** ****	1	5.8	2	61139	2	1	120	N
APR 6,85	APR 5,85	800 900	600 800	1	8.5	2	61140	2	1	111	
APR 8,85	APR 7,85	900 900	**** 800	2	3.9	2	61141	2	1	87	
APR 12,85	APR 11,85	800 800	200 600	1	5.4	2	61142	2	1	100	
APR 20,85	APR 19,85	800 900	2100 2400	1	1.4	2	61143	2	1	201	NJ
APR 25,85	APR 24,85	800 800	1600 1700	1	2.6	1	61144	2	1	113	
MAY 6,85	MAY 5,85	800 800	2000 2200	1	7.3	1	61145	2	1	89	
MAY 7,85	MAY 6,85	800 800	**** ****	1	5.0	1	61146	2	1	96	
MAY 16,85	MAY 15,85	800 800	1900 2300	1	11.5	1	61147	2	1	97	C
MAY 21,85	MAY 20,85	800 800	1600 1800	1	14.5	1	61148	2	1	102	CDQ
MAY 27,85	MAY 26,85	800 800	1200 1400	1	4.6	1	61149	2	1	100	JC

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM				#01	PAGE : 2				
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 2,85	DEC 31,84	2368.0	*****	*****	*****	*****	*****	*****	*****
JAN 8,85	JAN 7,85	30.0	29.6	*****	*****	*****	*****	5.55	0.98
JAN 15,85	JAN 14,85	42.0	18.4	*****	UG 6.75	LG 0.0174	LG 0.0171	2.10	0.75
JAN 17,85	JAN 16,85	403.0	14.0	*****	4.68	*****	0.0400	0.65	0.54
JAN 19,85	JAN 18,85	262.0	27.5	*****	4.26	*****	0.0746	0.85	0.74
JAN 22,85	JAN 21,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 25,85	JAN 24,85	142.0	30.8	4.22	4.34	*****	0.0746	1.45	1.03
JAN 31,85	JAN 30,85	80.0	*****	*****	*****	*****	*****	*****	*****
FEB 6,85	FEB 5,85	98.0	53.5	*****	3.97	*****	0.1380	2.25	1.32
FEB 7,85	FEB 6,85	80.0	70.7	*****	3.81	*****	0.1790	1.65	1.87
FEB 12,85	FEB 11,85	868.0	23.2	4.24	4.30	*****	0.0696	1.35	0.42
FEB 13,85	FEB 12,85	550.0	24.8	*****	4.27	*****	0.0726	1.35	0.49
FEB 14,85	FEB 13,85	77.0	27.4	*****	4.30	*****	0.0753	0.95	0.73
FEB 22,85	FEB 21,85	690.0	61.8	3.85	3.93	*****	0.1520	5.20	1.06
FEB 23,85	FEB 22,85	1274.0	23.3	4.28	4.34	*****	0.0646	1.60	0.34
FEB 24,85	FEB 23,85	1333.0	32.4	4.18	4.24	*****	0.0792	2.75	0.38
FEB 25,85	FEB 24,85	74.0	36.5	*****	4.12	*****	0.0955	3.05	0.39
FEB 27,85	FEB 26,85	289.0	34.5	4.20	4.21	*****	0.0807	2.55	0.74
MAR 5,85	MAR 4,85	1862.0	27.5	4.20	4.26	*****	0.0743	2.90	0.30
MAR 8,85	MAR 7,85	79.0	> 100.0	*****	LG 3.51	*****	UG 0.3440	UG 11.50	UG 3.94
MAR 11,85	MAR 10,85	125.0	35.8	*****	4.21	*****	0.0834	3.90	0.48
MAR 13,85	MAR 12,85	52.0	53.7	*****	3.95	*****	0.1290	3.50	1.23
MAR 24,85	MAR 23,85	1031.0	29.5	4.13	4.27	*****	0.0779	2.20	0.55
MAR 25,85	MAR 24,85	116.0	15.2	*****	4.54	*****	0.0493	1.10	0.22
MAR 28,85	MAR 27,85	387.0	20.9	4.29	4.51	*****	0.0531	2.55	0.28
MAR 29,85	MAR 28,85	354.0	21.3	4.41	4.61	*****	0.0479	3.10	0.32
APR 1,85	MAR 31,85	2286.0	16.5	4.34	4.56	*****	0.0500	1.75	0.13
APR 3,85	APR 2,85	385.0	13.8	4.55	4.77	*****	0.0387	1.05	0.39
APR 4,85	APR 3,85	26.0	*****	*****	4.79	*****	0.0407	*****	*****
APR 5,85	APR 4,85	448.0	38.1	4.44	4.60	*****	0.0580	5.55	1.11
APR 6,85	APR 5,85	606.0	21.1	4.54	4.63	*****	0.0510	2.55	0.41
APR 8,85	APR 7,85	218.0	49.2	4.00	4.11	*****	0.1170	3.20	1.26
APR 12,85	APR 11,85	348.0	27.8	4.36	4.37	*****	0.0655	1.90	0.80
APR 20,85	APR 19,85	181.0	49.3	UG 5.76	UG 6.53	*****	0.0234	UG 10.10	1.62
APR 25,85	APR 24,85	189.0	57.8	4.02	4.04	*****	0.1270	6.20	1.14
MAY 6,85	MAY 5,85	420.0	32.3	UG 6.43	UG 6.88	*****	0.0238	5.85	1.23
MAY 7,85	MAY 6,85	310.0	30.5	D 4.42	4.42	*****	0.0638	3.80	0.76
MAY 16,85	MAY 15,85	718.0	24.7	3.98	3.92	*****	0.1510	5.05	0.84
MAY 21,85	MAY 20,85	957.0	42.3	UG 6.20	UG 6.86	*****	0.0214	5.00	0.79
MAY 27,85	MAY 26,85	297.0	60.4	*****	4.03	*****	0.1130	7.60	1.33

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM		#01							PAGE : 3
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L	
JAN 2,85	DEC 31,84	*****	*****	*****	*****	*****	*****	*****	
JAN 8,85	JAN 7,85	*****	0.48	*****	*****	*****	1.150	*****	
JAN 15,85	JAN 14,85	*****	0.68	*****	*****	*****	0.260	LG 0.0002	
JAN 17,85	JAN 16,85	D 0.54	0.34	0.080	<T 0.010	0.115	0.080	0.0209	
JAN 19,85	JAN 18,85	0.06	0.24	0.020	<W 0.005	0.035	0.170	0.0550	
JAN 22,85	JAN 21,85	*****	*****	*****	*****	*****	*****	*****	
JAN 25,85	JAN 24,85	D 0.55	0.50	0.075	0.055	0.140	0.325	0.0457	
JAN 31,85	JAN 30,85	*****	*****	*****	*****	*****	*****	*****	
FEB 6,85	FEB 5,85	0.29	0.47	0.045	0.035	0.265	0.195	0.1072	
FEB 7,85	FEB 6,85	0.40	UG 1.23	0.045	0.035	0.330	0.285	0.1549	
FEB 12,85	FEB 11,85	<W 0.01	0.16	<T 0.005	<T 0.015	0.020	0.070	0.0501	
FEB 13,85	FEB 12,85	<W 0.01	0.22	<T 0.010	0.090	0.080	0.070	0.0537	
FEB 14,85	FEB 13,85	*****	0.24	*****	*****	*****	0.235	0.0501	
FEB 22,85	FEB 21,85	0.42	0.39	0.060	0.050	0.220	0.525	0.1175	
FEB 23,85	FEB 22,85	<T 0.04	0.12	<T 0.015	<T 0.005	0.045	0.205	0.0457	
FEB 24,85	FEB 23,85	0.12	0.53	0.050	D 0.100	0.365	0.250	0.0575	
FEB 25,85	FEB 24,85	0.10	0.12	<T 0.015	<T 0.020	0.060	0.225	0.0759	
FEB 27,85	FEB 26,85	0.16	0.15	0.030	0.035	0.055	0.555	0.0617	
MAR 5,85	MAR 4,85	<T 0.01	0.11	0.025	0.030	0.035	0.355	0.0550	
MAR 8,85	MAR 7,85	*****	0.79	0.225	0.225	0.465	0.200	UG 0.3090	
MAR 11,85	MAR 10,85	0.20	0.50	0.055	0.225	0.385	0.320	0.0617	
MAR 13,85	MAR 12,85	0.18	0.18	*****	0.125	0.080	0.530	0.1122	
MAR 24,85	MAR 23,85	0.32	0.12	0.040	0.025	0.025	0.215	0.0537	
MAR 25,85	MAR 24,85	0.20	0.07	0.020	<T 0.020	<T 0.020	LG 0.035	0.0288	
MAR 28,85	MAR 27,85	0.37	0.13	0.055	0.025	0.065	0.295	0.0309	
MAR 29,85	MAR 28,85	0.67	0.15	0.070	0.035	0.105	0.430	0.0245	
APR 1,85	MAR 31,85	<T 0.01	<T 0.05	<T 0.010	0.085	0.080	0.140	0.0275	
APR 3,85	APR 2,85	0.27	<T 0.06	0.045	<T 0.020	0.055	0.200	0.0170	
APR 4,85	APR 3,85	*****	*****	*****	*****	*****	*****	0.0162	
APR 5,85	APR 4,85	UG 1.66	0.60	0.220	0.115	0.360	0.900	0.0251	
APR 6,85	APR 5,85	0.61	0.21	0.070	0.050	0.145	0.320	0.0234	
APR 8,85	APR 7,85	0.54	0.34	0.085	D 0.050	D 0.080	0.525	0.0776	
APR 12,85	APR 11,85	0.22	0.10	0.050	<T 0.020	0.030	0.435	0.0427	
APR 20,85	APR 19,85	UG 3.06	0.44	UG 0.490	0.120	0.120	UG 2.380	LG 0.0003	
APR 25,85	APR 24,85	1.10	0.31	0.185	0.135	0.125	0.780	0.0912	
MAY 6,85	MAY 5,85	UG 2.65	0.28	0.380	0.170	0.100	1.400	LG 0.0001	
MAY 7,85	MAY 6,85	0.59	0.12	0.100	0.130	0.035	0.850	0.0380	
MAY 16,85	MAY 15,85	0.26	0.20	0.040	0.030	0.040	0.370	0.1202	
MAY 21,85	MAY 20,85	UG 2.56	0.28	0.440	0.200	0.030	0.865	LG 0.0001	
MAY 27,85	MAY 26,85	1.44	0.24	0.280	0.090	0.050	1.100	0.0933	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM

#01

PAGE : 4

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
MAY 28,85	MAY 27,85	800 800	**** ****	1	3.6	1	61150	2	1	91	H
MAY 29,85	MAY 28,85	800 800	300 800	1	11.5	1	61151	2	1	99	
JUN 9,85	JUN 8,85	800 800	400 600	1	5.7	1	61152	2	1	96	H
JUN 12,85	JUN 11,85	800 800	**** ****	1	10.2	1	61153	2	1	98	
JUN 16,85	JUN 15,85	800 800	1500 2400	1	10.0	1	61154	2	1	96	
JUN 18,85	JUN 17,85	800 800	1600 1900	1	10.0	1	61155	2	1	100	
JUN 20,85	JUN 19,85	800 800	1600 1900	1	2.5	1	61156	2	1	88	H
JUL 3,85	JUL 2,85	800 800	**** ****	1	1.0	1	61157	2	1	343	N
JUL 6,85	JUL 5,85	800 800	1800 2000	1	5.9	1	61158	2	1	104	
JUL 7,85	JUL 6,85	800 1000	**** ****	1	4.8	1	61159	2	1	92	
JUL 8,85	JUL 7,85	1000 800	2200 200	1	12.3	1	61160	2	1	81	H
JUL 14,85	JUL 13,85	800 1000	600 900	1	6.3	1	61161	2	1	96	
JUL 15,85	JUL 14,85	1000 800	**** ****	1	22.0	1	61162	2	1	****	E
JUL 20,85	JUL 19,85	800 900	1700 1900	1	3.1	1	61163	2	1	73	
JUL 22,85	JUL 21,85	800 900	**** ****	1	1.9	1	61164	2	1	78	U G
JUL 26,85	JUL 25,85	800 800	**** 700	1	3.8	1	61165	2	1	82	
AUG 1,85	JUL 30,85	800 1000	**** ****	1	3.0	1	61168	2	1	91	Z
AUG 6,85	AUG 5,85	800 800	1400 2000	1	5.9	1	61169	2	1	95	C
AUG 7,85	AUG 6,85	800 900	600 900	1	1.6	1	61170	2	1	88	
AUG 14,85	AUG 13,85	800 800	1800 2000	1	11.0	1	61171	2	1	54	
AUG 15,85	AUG 14,85	800 800	**** ****	1	23.6	1	61172	2	1	106	
AUG 16,85	AUG 15,85	800 800	**** ****	1	8.7	1	61173	2	1	93	
AUG 25,85	AUG 24,85	800 800	2000 300	1	26.0	1	61174	2	1	205	B N
AUG 27,85	AUG 26,85	800 800	**** ****	1	25.0	1	61175	2	1	116	
AUG 29,85	AUG 28,85	800 800	1400 1700	1	2.6	1	61176	2	1	85	
AUG 30,85	AUG 29,85	800 900	2400 800	1	3.8	1	61177	2	1	93	
SEP 2,85	SEP 1,85	800 900	1900 2200	1	3.6	1	61178	2	1	89	
SEP 5,85	SEP 4,85	800 800	**** ****	1	2.1	1	61179	2	1	93	
SEP 6,85	SEP 5,85	800 800	**** 800	1	6.0	1	61180	2	1	101	
SEP 8,85	SEP 7,85	800 800	**** 600	1	24.7	1	61181	2	1	96	
SEP 9,85	SEP 8,85	800 800	1900 2300	1	8.1	1	61185	2	1	101	
SEP 19,85	SEP 18,85	800 800	1500 1700	1	3.7	1	61186	2	1	57	HM
SEP 24,85	SEP 23,85	800 800	2100 400	1	16.7	1	61187	2	1	109	
SEP 25,85	SEP 24,85	800 800	400 800	1	2.7	1	61188	2	1	78	
SEP 26,85	SEP 25,85	800 800	800 1000	1	2.3	1	61189	2	1	89	
OCT 1,85	SEP 30,85	800 800	1800 500	1	6.5	1	61190	2	1	81	
OCT 5,85	OCT 4,85	800 800	1700 1900	1	2.0	1	61195	2	1	65	H
OCT 9,85	OCT 8,85	800 800	1800 800	1	9.0	1	61191	2	1	97	
OCT 11,85	OCT 10,85	800 800	**** ****	1	3.8	1	61192	2	1	82	
OCT 13,85	OCT 12,85	800 800	**** ****	1	22.1	1	61193	2	1	99	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM				#01							PAGE : 5
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L		
MAY 28,85	MAY 27,85	212.0	16.5	*****	UG 5.25	*****	0.0265	2.45	0.64		
MAY 29,85	MAY 28,85	732.0	53.9	*****	3.93	*****	0.1270	5.35	0.69		
JUN 9,85	JUN 8,85	353.0	27.2	UG 4.86	4.76	*****	0.0365	4.25	0.81		
JUN 12,85	JUN 11,85	644.0	21.0	*****	4.41	*****	0.0551	2.50	0.33		
JUN 16,85	JUN 15,85	620.0	D 39.5	4.17	4.05	*****	0.1090	3.85	0.44		
JUN 18,85	JUN 17,85	647.0	46.9	4.01	4.02	*****	0.1200	4.50	0.56		
JUN 20,85	JUN 19,85	142.0	13.4	UG 5.14	UG 5.17	*****	0.0253	1.80	0.25		
JUL 3,85	JUL 2,85	220.0	61.6	*****	3.96	*****	0.1500	6.95	1.09		
JUL 6,85	JUL 5,85	397.0	29.5	4.22	4.30	*****	0.0828	3.75	0.61		
JUL 7,85	JUL 6,85	285.0	18.6	4.71	4.80	*****	0.0370	1.85	0.49		
JUL 8,85	JUL 7,85	640.0	23.9	4.46	4.66	*****	0.0484	3.10	0.51		
JUL 14,85	JUL 13,85	391.0	19.8	4.50	4.67	*****	0.0446	2.45	0.36		
JUL 15,85	JUL 14,85	*****	*****	*****	*****	*****	*****	*****	*****		
JUL 20,85	JUL 19,85	147.0	61.1	4.00	4.04	*****	0.1260	8.15	0.91		
JUL 22,85	JUL 21,85	95.0	> 100.0	*****	3.59	*****	UG 0.3230	UG 14.25	1.54		
JUL 26,85	JUL 25,85	200.0	28.9	4.23	4.29	*****	0.0750	2.65	0.44		
AUG 1,85	AUG 30,85	175.0	51.0	*****	4.16	*****	0.1050	6.25	0.81		
AUG 6,85	AUG 5,85	363.0	43.5	*****	3.74	*****	0.2470	8.85	0.99		
AUG 7,85	AUG 6,85	91.0	49.0	*****	4.08	*****	0.1240	4.80	0.98		
AUG 14,85	AUG 13,85	387.0	35.6	4.22	4.26	*****	0.0906	4.00	0.57		
AUG 15,85	AUG 14,85	1614.0	43.1	4.08	4.09	*****	0.1140	3.80	0.48		
AUG 16,85	AUG 15,85	520.0	20.4	4.42	4.43	*****	0.0634	1.90	0.23		
AUG 25,85	AUG 24,85	3423.0	38.7	4.18	4.14	*****	0.1020	3.25	0.47		
AUG 27,85	AUG 26,85	1873.0	*****	4.15	*****	*****	*****	*****	*****		
AUG 29,85	AUG 28,85	142.0	48.5	4.24	4.23	*****	0.0995	7.50	0.97		
AUG 30,85	AUG 29,85	228.0	43.0	4.12	4.10	*****	0.1120	4.60	0.58		
SEP 2,85	SEP 1,85	206.0	33.4	4.22	4.23	*****	0.0913	3.20	0.51		
SEP 5,85	SEP 4,85	126.0	*****	*****	*****	*****	*****	*****	*****		
SEP 6,85	SEP 5,85	392.0	23.4	*****	4.46	*****	0.0640	2.30	0.40		
SEP 8,85	SEP 7,85	1520.0	28.1	*****	4.37	*****	0.0796	2.70	0.45		
SEP 9,85	SEP 8,85	528.0	18.9	*****	4.55	*****	0.0563	1.40	0.47		
SEP 19,85	SEP 18,85	137.0	61.1	3.95	4.06	*****	0.1550	4.55	1.17		
SEP 24,85	SEP 23,85	1171.0	14.1	4.60	4.68	*****	0.0485	1.45	0.18		
SEP 25,85	SEP 24,85	135.0	71.3	3.83	3.88	*****	0.1780	7.60	0.89		
SEP 26,85	SEP 25,85	132.0	37.4	4.12	D 4.17	*****	0.0953	3.80	0.48		
OCT 1,85	SEP 30,85	338.0	42.3	4.07	4.17	*****	0.1000	4.55	0.79		
OCT 5,85	OCT 4,85	84.0	64.6	*****	B 7.04	*****	LG 0.0188	UG 16.50	1.61		
OCT 9,85	OCT 8,85	563.0	45.3	4.13	4.17	*****	0.0963	6.25	0.57		
OCT 11,85	OCT 10,85	200.0	28.0	4.36	4.42	*****	0.0628	3.20	0.48		
OCT 13,85	OCT 12,85	1416.0	39.7	4.11	4.15	*****	0.0984	3.70	D 0.43		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM		#01								PAGE : 6
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L		
MAY 28,85	MAY 27,85	0.27	<T 0.06	0.035	0.035	<T 0.015	1.150	LG 0.0056		
MAY 29,85	MAY 28,85	0.39	0.20	0.055	0.040	0.095	0.500	0.1175		
JUN 9,85	JUN 8,85	1.35	0.21	0.255	0.075	0.080	0.710	0.0174		
JUN 12,85	JUN 11,85	0.34	<T 0.03	0.055	0.030	<T 0.010	0.280	0.0389		
JUN 16,85	JUN 15,85	0.16	<T 0.04	0.030	0.045	<T 0.010	0.260	0.0891		
JUN 18,85	JUN 17,85	0.15	0.23	0.035	0.035	<T 0.005	0.505	0.0955		
JUN 20,85	JUN 19,85	0.42	<T 0.06	0.080	0.055	<T 0.020	0.370	LG 0.0068		
JUL 3,85	JUL 2,85	1.00	0.34	0.165	0.085	0.100	0.630	0.1096		
JUL 6,85	JUL 5,85	0.53	0.14	0.080	0.070	0.065	0.420	0.0501		
JUL 7,85	JUL 6,85	0.30	0.16	0.060	0.090	0.075	0.580	0.0158		
JUL 8,85	JUL 7,85	0.71	0.11	0.110	0.065	0.035	0.630	0.0219		
JUL 14,85	JUL 13,85	0.56	0.08	0.075	0.095	0.045	0.375	0.0214		
JUL 15,85	JUL 14,85	*****	*****	*****	*****	*****	*****	*****		
JUL 20,85	JUL 19,85	1.50	0.25	0.270	0.145	D 0.095	0.760	0.0912		
JUL 22,85	JUL 21,85	0.72	0.37	0.165	0.080	0.060	1.450	0.2570		
JUL 26,85	JUL 25,85	0.27	0.07	0.055	0.035	0.030	0.215	0.0513		
AUG 1,85	JUL 30,85	0.75	0.17	0.145	0.040	0.020	0.940	0.0692		
AUG 6,85	AUG 5,85	0.27	0.23	0.050	0.050	0.040	0.335	0.1820		
AUG 7,85	AUG 6,85	0.49	0.22	0.105	0.070	0.050	0.565	0.0832		
AUG 14,85	AUG 13,85	0.44	0.18	0.080	0.035	0.025	0.460	0.0550		
AUG 15,85	AUG 14,85	0.10	<T 0.06	0.020	<T 0.010	<T 0.010	0.210	0.0813		
AUG 16,85	AUG 15,85	0.04	<T 0.02	<T 0.010	<T 0.010	<T 0.010	0.130	0.0372		
AUG 25,85	AUG 24,85	0.15	0.10	0.030	0.055	<T 0.015	0.155	0.0724		
AUG 27,85	AUG 26,85	*****	*****	*****	*****	*****	*****	*****		
AUG 29,85	AUG 28,85	1.42	0.31	0.235	0.075	0.065	1.050	0.0589		
AUG 30,85	AUG 29,85	0.24	0.13	0.055	0.035	0.025	0.465	0.0794		
SEP 2,85	SEP 1,85	0.30	0.13	0.045	0.060	0.040	0.275	0.0589		
SEP 5,85	SEP 4,85	*****	*****	*****	*****	*****	*****	*****		
SEP 6,85	SEP 5,85	0.35	0.12	0.045	0.035	0.070	0.175	0.0347		
SEP 8,85	SEP 7,85	0.24	0.23	0.030	0.030	0.055	0.345	0.0427		
SEP 9,85	SEP 8,85	0.23	0.09	0.040	<T 0.020	0.040	0.125	0.0282		
SEP 19,85	SEP 18,85	1.82	0.61	0.300	0.125	0.285	0.770	0.0871		
SEP 24,85	SEP 23,85	0.14	<T 0.03	0.025	<T 0.010	0.030	0.140	0.0209		
SEP 25,85	SEP 24,85	0.69	0.34	0.125	0.055	0.210	0.530	0.1318		
SEP 26,85	SEP 25,85	0.19	0.12	0.030	0.040	0.050	0.440	D 0.0676		
OCT 1,85	SEP 30,85	0.46	0.14	0.105	UG 0.270	0.125	0.565	0.0676		
OCT 5,85	OCT 4,85	UG 2.60	0.58	U 1.000	UG 0.570	U 3.950	1.070	B 0.0001		
OCT 9,85	OCT 8,85	1.09	0.14	0.135	0.085	0.060	0.455	0.0676		
OCT 11,85	OCT 10,85	0.46	0.19	0.050	0.135	0.185	0.370	0.0380		
OCT 13,85	OCT 12,85	0.16	0.18	0.020	0.035	0.085	0.195	0.0708		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM							#01	PAGE : 7					
REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.		PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE	
OCT 15,85	OCT 14,85	800	800	****	800	1	3.5	1	61194	2	1	91	
OCT 19,85	OCT 18,85	800	900	****	****	1	40.0	1	61196	2	1	84	
OCT 24,85	OCT 23,85	800	800	****	****	1	2.4	1	61199	2	1	85	
NOV 3,85	NOV 2,85	800	1000	****	****	1	18.0	1	61200	2	1	98	
NOV 4,85	NOV 3,85	1000	800	****	****	1	15.6	1	61201	2	1	85	
NOV 5,85	NOV 4,85	800	800	****	****	1	17.8	1	61202	2	1	107	
NOV 7,85	NOV 6,85	800	800	****	****	1	1.3	1	61203	2	1	56	
NOV 9,85	NOV 8,85	800	1000	****	****	1	7.0	1	61204	2	1	92	
NOV 10,85	NOV 9,85	1000	1100	****	****	1	22.6	1	61205	2	1	99	
NOV 11,85	NOV 10,85	1100	800	****	****	1	2.6	1	61206	2	1	84	
NOV 13,85	NOV 12,85	800	800	****	400	1	8.5	1	61207	2	1	88	
NOV 14,85	NOV 13,85	800	800	****	****	1	2.3	1	61208	2	1	80	
NOV 15,85	NOV 14,85	800	800	****	****	1	7.3	1	61209	2	1	95	
NOV 16,85	NOV 15,85	800	1000	****	1000	1	9.2	1	61210	2	1	95	
NOV 17,85	NOV 16,85	1000	800	1000	1400	1	1.5	1	61211	2	1	52	
NOV 19,85	NOV 18,85	800	800	1400	****	1	12.5	1	61212	2	1	100	
NOV 20,85	NOV 19,85	800	800	****	****	1	4.0	1	61213	2	1	85	
NOV 27,85	NOV 26,85	800	800	****	****	1	16.2	2	61214	2	1	97	
NOV 28,85	NOV 27,85	800	800	****	****	2	2.0	2	61215	2	1	****	EK
DEC 1,85	NOV 30,85	800	800	****	****	1	1.0	2	61216	2	1	31	N
DEC 2,85	DEC 1,85	800	800	****	****	2	8.3	2	61217	2	1	97	
DEC 5,85	DEC 3,85	800	800	****	****	2	13.4	2	61218	2	1	31	NZ
DEC 11,85	DEC 10,85	800	800	****	****	2	****	2	61219	2	1	****	
DEC 13,85	DEC 12,85	800	800	****	****	2	5.2	2	61220	2	1	65	
DEC 22,85	DEC 21,85	800	800	****	****	2	6.6	2	61221	2	1	29	
DEC 24,85	DEC 23,85	800	800	2100	100	2	2.0	2	61222	2	1	90	
DEC 25,85	DEC 24,85	800	800	400	800	2	6.6	2	61223	2	1	14	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM #01										PAGE : 8
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L	
OCT 15,85	OCT 14,85	205.0	42.1	4.03	4.08	*****	0.1100	3.55	0.51	
OCT 19,85	OCT 18,85	2173.0	18.0	4.47	4.49	*****	0.0508	1.60	0.22	
OCT 24,85	OCT 23,85	131.0	39.6	*****	4.12	*****	0.1000	3.30	0.61	
NOV 3,85	NOV 2,85	1135.0	22.7	4.38	4.41	*****	0.0592	1.75	0.38	
NOV 4,85	NOV 3,85	859.0	27.7	4.22	4.25	*****	0.0753	1.55	0.52	
NOV 5,85	NOV 4,85	1227.0	D 11.3	4.67	4.72	*****	0.0398	0.60	0.17	
NOV 7,85	NOV 6,85	47.0	UG 84.1	*****	3.77	*****	UG 0.2070	5.70	1.91	
NOV 9,85	NOV 8,85	417.0	42.3	4.15	4.16	*****	0.0968	2.65	1.03	
NOV 10,85	NOV 9,85	1445.0	28.0	4.31	4.32	*****	0.0703	1.90	D 0.47	
NOV 11,85	NOV 10,85	141.0	21.5	4.56	4.57	*****	0.0503	2.50	0.50	
NOV 13,85	NOV 12,85	481.0	D 43.0	*****	4.10	*****	0.1070	3.40	D 0.78	
NOV 14,85	NOV 13,85	119.0	18.6	*****	4.48	*****	0.0536	1.65	0.23	
NOV 15,85	NOV 14,85	448.0	26.7	*****	4.29	*****	0.0726	2.20	0.32	
NOV 16,85	NOV 15,85	562.0	15.4	*****	4.54	*****	0.0482	1.45	LG 0.10	
NOV 17,85	NOV 16,85	50.0	19.5	*****	4.70	*****	0.0467	3.25	0.34	
NOV 19,85	NOV 18,85	803.0	31.4	4.20	4.21	*****	0.0943	2.75	0.20	
NOV 20,85	NOV 19,85	218.0	22.6	4.39	4.42	*****	0.0611	2.05	0.29	
NOV 27,85	NOV 26,85	1012.0	29.5	*****	4.25	*****	0.0798	2.30	0.37	
NOV 28,85	NOV 27,85	*****	*****	*****	*****	*****	*****	*****	*****	
DEC 1,85	NOV 30,85	20.0	*****	*****	LG 3.47	*****	UG 0.4360	*****	*****	
DEC 2,85	DEC 1,85	517.0	24.9	4.31	4.38	*****	0.0681	1.60	0.31	
DEC 5,85	DEC 3,85	272.0	23.2	*****	4.43	*****	0.0589	1.60	0.60	
DEC 11,85	DEC 10,85	340.0	70.1	3.90	3.84	*****	0.1720	4.65	1.63	
DEC 13,85	DEC 12,85	217.0	19.8	4.48	4.40	*****	0.0563	1.45	0.29	
DEC 22,85	DEC 21,85	125.0	D 36.0	*****	4.21	*****	0.0906	2.45	0.91	
DEC 24,85	DEC 23,85	116.0	43.9	*****	4.11	*****	0.1110	3.85	1.16	
DEC 25,85	DEC 24,85	60.0	28.2	*****	4.35	*****	0.0731	1.60	0.88	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY/AEROCHEM		#01		PAGE : 9						
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L		
OCT 15,85	OCT 14,85	0.11	0.12	0.015	0.025	0.020	0.105	0.0832		
OCT 19,85	OCT 18,85	<T 0.02	<T 0.06	<T 0.010	<T 0.015	<T 0.010	0.105	0.0324		
OCT 24,85	OCT 23,85	0.17	0.16	0.025	0.020	0.065	0.255	0.0759		
NOV 3,85	NOV 2,85	0.16	0.08	0.035	<T 0.005	0.035	0.135	0.0389		
NOV 4,85	NOV 3,85	<T 0.03	<T 0.05	<T 0.005	<T 0.005	0.020	0.105	0.0562		
NOV 5,85	NOV 4,85	<T 0.01	<T 0.04	<W 0.005	<W 0.005	<T 0.010	LG 0.035	0.0191		
NOV 7,85	NOV 6,85	0.87	0.39	0.110	0.175	0.170	0.425	0.1698		
NOV 9,85	NOV 8,85	0.51	0.21	0.065	0.055	0.085	0.330	0.0692		
NOV 10,85	NOV 9,85	0.15	0.09	0.020	<T 0.010	0.040	0.205	0.0479		
NOV 11,85	NOV 10,85	0.76	0.09	0.085	0.045	0.095	0.195	0.0269		
NOV 13,85	NOV 12,85	0.08	0.28	0.020	<T 0.010	0.055	0.495	0.0794		
NOV 14,85	NOV 13,85	0.07	<T 0.06	<T 0.015	<T 0.010	0.020	0.100	0.0331		
NOV 15,85	NOV 14,85	0.08	0.11	<T 0.010	<W 0.005	0.045	0.145	0.0513		
NOV 16,85	NOV 15,85	0.04	<T 0.06	<T 0.010	<W 0.005	0.045	0.050	0.0288		
NOV 17,85	NOV 16,85	0.10	0.25	0.035	0.180	0.190	0.800	0.0200		
NOV 19,85	NOV 18,85	0.16	0.25	0.045	<T 0.010	0.085	0.065	0.0617		
NOV 20,85	NOV 19,85	0.17	D 0.26	0.050	0.045	0.150	0.105	0.0380		
NOV 27,85	NOV 26,85	0.11	0.09	<T 0.010	<T 0.005	0.030	0.155	0.0562		
NOV 28,85	NOV 27,85	*****	*****	*****	*****	*****	*****	*****		
DEC 1,85	NOV 30,85	*****	*****	*****	*****	*****	*****	UG 0.3388		
DEC 2,85	DEC 1,85	0.19	0.09	0.015	<T 0.010	0.040	0.170	0.0417		
DEC 5,85	DEC 3,85	0.54	0.40	0.085	0.030	0.110	0.290	0.0372		
DEC 11,85	DEC 10,85	0.40	0.38	0.045	0.080	0.120	0.700	0.1445		
DEC 13,85	DEC 12,85	0.10	0.06	<T 0.010	<T 0.010	0.025	0.110	0.0398		
DEC 22,85	DEC 21,85	0.40	D 0.78	0.065	0.030	0.120	0.325	0.0617		
DEC 24,85	DEC 23,85	0.26	0.24	0.055	<T 0.015	0.055	0.980	0.0776		
DEC 25,85	DEC 24,85	0.36	0.44	0.055	0.035	0.170	0.340	0.0447		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.		PRECIP START/END HR. HR.		SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE	
JAN 2,85	JAN 1,85	800	800	****	****	3	10.0	2	63264	2	1	85		
JAN 4,85	JAN 3,85	800	800	100	800	2	9.4	2	63265	2	1	52		
JAN 5,85	JAN 4,85	800	800	800	1000	2	0.1	2	63267	2	1	311		N
JAN 15,85	JAN 14,85	800	800	****	****	2	5.7	2	63268	2	1	40		N
JAN 17,85	JAN 16,85	800	800	2100	800	2	6.8	2	63269	2	1	72		
JAN 18,85	JAN 17,85	800	800	800	1000	2	0.7	2	63270	2	1	44		N
JAN 22,85	JAN 19,85	800	800	1000	100	2	29.0	2	63271	2	1	31		NZ
JAN 27,85	JAN 26,85	800	800	900	800	2	8.6	2	63272	2	1	2	U	ME
JAN 28,85	JAN 27,85	800	800	800	1000	2	1.6	2	63273	2	1	32		N
JAN 29,85	JAN 28,85	800	800	1000	1200	2	0.8	2	63274	2	1	38		N
JAN 31,85	JAN 30,85	800	800	****	****	2	1.2	2	63275	2	1	46		N
FEB 1,85	JAN 31,85	800	800	****	****	2	2.0	2	63276	2	1	95		
FEB 6,85	FEB 5,85	800	800	1700	800	2	6.4	2	63277	2	1	60		
FEB 7,85	FEB 6,85	800	800	****	****	2	2.2	2	63278	2	1	70	C	
FEB 9,85	FEB 8,85	800	800	****	****	2	3.4	2	63279	2	1	44		N
FEB 12,85	FEB 11,85	800	800	2400	800	2	32.2	2	63280	2	1	56		
FEB 13,85	FEB 12,85	800	800	800	800	2	19.6	2	63283	2	1	78		
FEB 14,85	FEB 13,85	800	800	800	800	3	7.4	2	63286	2	1	60		
FEB 15,85	FEB 14,85	800	800	800	700	2	7.0	2	63287	2	1	50		
FEB 17,85	FEB 16,85	800	800	1200	700	2	6.8	2	63288	2	1	36		N
FEB 19,85	FEB 18,85	800	800	2000	700	2	6.6	2	63289	2	1	47	C	N
FEB 23,85	FEB 22,85	800	1000	1000	1000	1	12.6	2	63294	2	1	278	C	NC
FEB 24,85	FEB 23,85	1000	800	1000	1800	1	22.5	2	63293	2	1	110	C	
FEB 27,85	FEB 26,85	800	800	2400	800	2	7.2	2	63292	2	1	79		
FEB 28,85	FEB 27,85	800	800	800	1200	2	0.6	2	63291	2	1	18	E	N
MAR 2,85	MAR 1,85	800	800	2100	700	1	0.8	2	63290	2	1	124	C	N
MAR 5,85	MAR 4,85	800	800	2200	800	3	70.0	2	63295	2	1	25		N
MAR 6,85	MAR 5,85	800	800	800	1200	1	2.0	2	63298	2	1	48	C	NH
MAR 8,85	MAR 7,85	800	800	2100	730	1	3.2	2	63299	2	1	91	C	
MAR 12,85	MAR 11,85	800	800	1330	800	1	8.4	2	63300	2	1	83	C	
MAR 13,85	MAR 12,85	800	800	800	1100	3	2.8	2	63301	2	1	55	C	
MAR 14,85	MAR 13,85	800	800	2400	730	2	0.8	2	63302	2	1	52		
MAR 17,85	MAR 16,85	800	800	1800	730	3	1.7	*	63303	2	1	85		
MAR 24,85	MAR 23,85	800	800	1500	800	3	9.4	2	63305	2	1	89		J
MAR 25,85	MAR 24,85	800	800	****	****	2	6.0	2	63306	2	1	64	C	
MAR 28,85	MAR 27,85	800	800	1500	800	1	8.4	2	63308	2	1	101	C	
MAR 29,85	MAR 28,85	800	800	800	1200	1	8.6	2	63309	2	1	101	C	
MAR 31,85	MAR 31,85	800	800	900	800	3	28.0	2	63310	2	1	94	C	
APR 1,85	APR 1,85	800	800	800	800	2	4.0	2	63313	2	1	10	C	N
APR 2,85	APR 1,85	800	800	800	800	2	7.0	2	63314	2	1	61	C	JM

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 2,85	JAN 1,85	546.0	13.3	*****	4.61	0.0470	0.0458	1.00	0.13
JAN 4,85	JAN 3,85	316.0	46.9	*****	4.12	0.1122	0.1090	3.80	0.94
JAN 5,85	JAN 4,85	20.0	*****	*****	*****	*****	*****	*****	*****
JAN 15,85	JAN 14,85	147.0	16.4	*****	UG 5.08	0.0314	0.0293	1.85	0.61
JAN 17,85	JAN 16,85	318.0	8.9	*****	4.94	*****	0.0300	LG 0.35	0.34
JAN 18,85	JAN 17,85	20.0	*****	*****	4.21	0.0872	0.0886	*****	*****
JAN 22,85	JAN 19,85	582.0	11.1	*****	4.85	*****	0.0359	0.70	0.31
JAN 27,85	JAN 26,85	13.0	*****	*****	*****	*****	*****	*****	*****
JAN 28,85	JAN 27,85	33.0	*****	*****	4.06	*****	0.1200	*****	*****
JAN 29,85	JAN 28,85	20.0	*****	*****	UG 5.46	0.0236	0.0232	*****	*****
JAN 31,85	JAN 30,85	36.0	*****	*****	4.18	0.1004	0.1000	*****	*****
FEB 1,85	JAN 31,85	123.0	46.1	*****	4.06	*****	0.1180	0.80	1.20
FEB 6,85	FEB 5,85	247.0	35.0	*****	4.22	*****	0.0863	0.85	1.06
FEB 7,85	FEB 6,85	100.0	51.5	*****	3.95	*****	0.1280	LG 0.55	1.55
FEB 9,85	FEB 8,85	96.0	11.8	*****	UG 7.03	*****	LG 0.0165	1.15	0.31
FEB 12,85	FEB 11,85	1166.0	15.2	4.46	4.49	*****	0.0499	0.95	0.31
FEB 13,85	FEB 12,85	987.0	14.3	4.50	4.52	*****	0.0443	0.80	0.26
FEB 14,85	FEB 13,85	285.0	26.8	4.24	4.25	*****	0.0722	1.90	0.51
FEB 15,85	FEB 14,85	225.0	9.0	UG 4.88	4.87	*****	0.0280	LG 0.55	0.23
FEB 17,85	FEB 16,85	160.0	52.4	3.96	3.98	*****	0.1250	2.05	1.53
FEB 19,85	FEB 18,85	200.0	51.9	3.99	4.01	*****	0.1180	2.60	1.40
FEB 23,85	FEB 22,85	2248.0	B 295.0	4.14	4.22	*****	0.0797	2.30	0.41
FEB 24,85	FEB 23,85	1593.0	39.4	4.09	4.18	*****	0.0908	3.40	0.65
FEB 27,85	FEB 26,85	369.0	22.3	4.40	4.44	*****	0.0556	1.60	0.62
FEB 28,85	FEB 27,85	7.0	*****	*****	*****	*****	*****	*****	*****
MAR 2,85	MAR 1,85	64.0	UG 98.0	*****	3.87	*****	0.1750	8.30	UG 3.39
MAR 5,85	MAR 4,85	1124.0	9.1	B 6.56	B 6.96	*****	LG 0.0145	1.65	0.18
MAR 6,85	MAR 5,85	62.0	13.5	*****	UG 5.95	*****	LG 0.0187	1.55	0.63
MAR 8,85	MAR 7,85	188.0	UG 95.5	LG 3.69	3.81	*****	UG 0.2090	8.40	UG 2.41
MAR 12,85	MAR 11,85	451.0	35.5	4.21	4.23	*****	0.0815	3.10	0.75
MAR 13,85	MAR 12,85	100.0	25.5	*****	4.30	*****	0.0690	1.75	0.49
MAR 14,85	MAR 13,85	27.0	*****	*****	3.97	*****	0.1430	*****	*****
MAR 17,85	MAR 16,85	93.0	47.5	*****	UG 7.20	*****	LG 0.0180	5.85	UG 2.26
MAR 24,85	MAR 23,85	538.0	11.8	UG 6.07	UG 6.65	*****	LG 0.0172	1.85	0.42
MAR 25,85	MAR 24,85	248.0	17.1	4.31	4.46	*****	0.0544	0.80	0.42
MAR 28,85	MAR 27,85	544.0	14.8	4.49	4.75	*****	0.0385	1.95	0.24
MAR 29,85	MAR 28,85	558.0	25.2	4.38	4.53	*****	0.0557	3.35	0.49
APR 1,85	MAR 31,85	1698.0	14.1	4.45	4.64	*****	0.0429	1.65	0.19
APR 2,85	APR 1,85	28.0	*****	*****	4.29	*****	0.0824	*****	*****
APR 3,85	APR 2,85	274.0	13.2	4.31	4.71	*****	0.0405	0.85	0.35

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 2,85	JAN 1,85	<T 0.02	0.06	0.010	0.030	0.015	0.090	0.0245
JAN 4,85	JAN 3,85	0.17	0.39	0.035	0.040	0.085	0.780	0.0759
JAN 5,85	JAN 4,85	*****	*****	*****	*****	*****	*****	*****
JAN 15,85	JAN 14,85	0.76	0.29	0.165	0.040	0.100	0.345	LG 0.0083
JAN 17,85	JAN 16,85	0.21	0.14	0.045	<T 0.010	0.050	LG 0.035	0.0115
JAN 18,85	JAN 17,85	*****	*****	*****	*****	*****	*****	0.0617
JAN 22,85	JAN 19,85	0.15	0.11	0.025	<T 0.015	0.030	0.155	0.0141
JAN 27,85	JAN 26,85	*****	*****	*****	*****	*****	*****	*****
JAN 28,85	JAN 27,85	*****	*****	*****	*****	*****	*****	0.0871
JAN 29,85	JAN 28,85	*****	*****	*****	*****	*****	*****	LG 0.0035
JAN 31,85	JAN 30,85	*****	*****	*****	*****	*****	*****	0.0661
FEB 1,85	JAN 31,85	0.14	0.62	<T 0.015	<T 0.010	0.055	LG 0.035	0.0871
FEB 6,85	FEB 5,85	0.27	0.51	0.070	0.045	0.125	0.100	0.0603
FEB 7,85	FEB 6,85	0.17	0.69	0.040	0.050	0.200	0.095	0.1122
FEB 9,85	FEB 8,85	1.24	0.29	0.270	0.150	0.175	0.340	LG 0.0001
FEB 12,85	FEB 11,85	0.05	0.15	0.030	<T 0.015	0.050	0.055	0.0324
FEB 13,85	FEB 12,85	<W 0.01	0.15	<T 0.010	<W 0.005	0.050	0.050	0.0302
FEB 14,85	FEB 13,85	<W 0.01	0.16	0.015	<W 0.005	0.050	0.245	0.0562
FEB 15,85	FEB 14,85	0.10	0.22	0.030	0.095	0.095	0.110	0.0135
FEB 17,85	FEB 16,85	0.35	0.54	0.055	<T 0.005	0.145	0.420	0.1047
FEB 19,85	FEB 18,85	0.27	0.90	0.075	0.050	0.355	0.635	0.0977
FEB 23,85	FEB 22,85	0.08	0.12	<T 0.010	<T 0.020	0.025	0.280	0.0603
FEB 24,85	FEB 23,85	0.23	0.73	0.085	0.040	0.545	0.380	0.0661
FEB 27,85	FEB 26,85	0.18	0.12	0.040	<T 0.005	0.030	0.420	0.0363
FEB 28,85	FEB 27,85	*****	*****	*****	*****	*****	*****	*****
MAR 2,85	MAR 1,85	UG 1.78	0.78	UG 0.400	0.150	0.365	UG 2.400	0.1349
MAR 5,85	MAR 4,85	D 0.82	0.15	B 0.305	0.040	0.025	0.170	B 0.0001
MAR 6,85	MAR 5,85	1.08	0.49	UG 0.285	0.085	0.270	0.185	LG 0.0011
MAR 8,85	MAR 7,85	1.19	0.88	0.155	0.260	0.445	UG 1.550	0.1549
MAR 12,85	MAR 11,85	0.17	0.22	0.035	0.045	0.045	0.625	0.0589
MAR 13,85	MAR 12,85	0.05	0.13	0.020	0.040	0.030	0.200	0.0501
MAR 14,85	MAR 13,85	UG 1.77	*****	UG 0.370	0.165	0.280	*****	0.1072
MAR 17,85	MAR 16,85	U 4.22	0.76	U 0.905	0.130	0.205	UG 1.650	LG 0.0001
MAR 24,85	MAR 23,85	1.02	0.20	UG 0.295	0.025	0.080	0.260	LG 0.0002
MAR 25,85	MAR 24,85	0.16	0.18	0.030	<T 0.020	0.070	0.095	0.0347
MAR 28,85	MAR 27,85	0.39	0.10	0.070	0.025	0.035	0.275	0.0178
MAR 29,85	MAR 28,85	0.55	0.24	0.055	D 0.090	0.150	0.600	0.0295
APR 1,85	MAR 31,85	0.30	0.10	0.075	<T 0.020	0.025	0.110	0.0229
APR 2,85	APR 1,85	*****	*****	*****	*****	*****	*****	0.0513
APR 3,85	APR 2,85	<T 0.04	<T 0.05	<T 0.015	<W 0.005	<T 0.015	0.180	0.0195

ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
APR 5,85	APR 4,85	800 800	**** 800	1	20.0	2	63315	2	1	103	C
APR 6,85	APR 5,85	800 800	800 800	1	6.8	2	63318	2	1	102	C
APR 7,85	APR 6,85	800 800	800 1700	3	3.2	2	63319	2	1	64	C
APR 8,85	APR 7,85	800 800	2000 800	2	4.2	2	63320	2	1	75	C
APR 15,85	APR 14,85	800 800	2200 730	1	****	2	63321	2	1	****	C
APR 18,85	APR 17,85	800 800	2000 2030	1	0.4	1	63322	2	1	50	C
APR 20,85	APR 19,85	800 800	1400 1900	1	7.4	1	63323	2	1	91	C JH
APR 26,85	APR 25,85	800 800	**** ****	1	14.0	1	63324	2	1	47	AC N
MAY 5,85	MAY 4,85	800 800	230 800	1	8.8	1	63325	2	1	77	
MAY 7,85	MAY 6,85	800 800	2230 800	1	5.2	1	63326	2	1	98	C J
MAY 16,85	MAY 15,85	800 800	1000 1400	1	2.6	1	63327	2	1	90	CD J
MAY 27,85	MAY 26,85	800 800	900 800	1	29.9	1	63328	2	1	46	C N
MAY 28,85	MAY 27,85	800 800	800 1200	1	7.0	1	63331	2	1	98	C H
MAY 31,85	MAY 30,85	800 800	100 800	1	6.2	1	63333	2	1	98	C H
JUN 1,85	MAY 31,85	800 800	800 1200	1	1.4	1	63334	2	1	72	C H
JUN 8,85	JUN 7,85	800 800	100 600	1	2.0	1	63335	2	1	60	C HM
JUN 9,85	JUN 8,85	800 800	400 630	1	6.3	1	63336	2	1	101	C H
JUN 12,85	JUN 11,85	800 800	1200 2130	1	7.2	1	63337	2	1	128	C N
JUN 13,85	JUN 12,85	800 800	2400 600	1	0.6	1	63338	2	1	15	E N
JUN 16,85	JUN 15,85	800 800	1700 800	1	13.6	1	63339	2	1	100	C
JUN 17,85	JUN 16,85	800 800	800 2400	1	9.0	1	63342	2	1	106	
JUN 18,85	JUN 17,85	800 800	1500 2000	1	9.8	1	63343	2	1	95	C
JUN 19,85	JUN 18,85	800 800	1700 1800	1	0.9	1	63344	2	1	57	
JUN 20,85	JUN 19,85	800 800	2430 600	1	0.8	1	63345	2	1	56	
JUN 23,85	JUN 22,85	800 800	1200 1600	1	29.6	1	63346	2	1	98	C
JUL 2,85	JUL 1,85	800 800	100 600	1	0.4	1	63347	2	1	23	E N
JUL 3,85	JUL 2,85	800 800	1100 1800	1	1.0	1	63348	2	1	60	
JUL 6,85	JUL 5,85	800 800	1800 1900	1	6.2	1	63349	2	1	92	JHC
JUL 7,85	JUL 6,85	800 800	900 1000	1	2.8	1	63350	2	1	89	JH
JUL 8,85	JUL 7,85	800 800	300 600	1	40.0	1	63351	2	1	103	C
JUL 12,85	JUL 11,85	800 800	100 700	1	11.1	1	63354	2	1	93	C
JUL 14,85	JUL 13,85	800 800	230 700	1	2.9	1	63355	2	1	96	
JUL 16,85	JUL 15,85	800 800	900 1100	1	5.0	1	63356	2	1	93	AC
JUL 20,85	JUL 19,85	800 800	1500 1600	1	4.1	1	63357	2	1	92	C
JUL 22,85	JUL 21,85	800 800	1400 1500	1	11.0	1	63358	2	1	97	C
JUL 26,85	JUL 25,85	800 800	**** ****	1	3.0	1	63359	2	1	57	A
JUL 31,85	JUL 30,85	800 800	100 600	1	2.4	1	63360	2	1	88	C J
AUG 1,85	JUL 31,85	800 800	1200 1300	1	0.6	1	63361	2	1	75	
AUG 7,85	AUG 6,85	800 800	2200 2300	1	0.8	1	63362	2	1	19	E N
AUG 11,85	AUG 10,85	800 800	2000 2030	1	3.2	1	63363	2	1	71	A J

ONTARIO MINISTRY OF THE ENVIRONMENT
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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 5,85	APR 4,85	1332.0	36.6	4.01	4.31	*****	0.0822	3.95	0.77
APR 6,85	APR 5,85	448.0	28.2	4.24	4.52	*****	0.0596	3.35	0.58
APR 7,85	APR 6,85	132.0	23.6	4.17	4.45	*****	0.0607	2.95	0.19
APR 8,85	APR 7,85	203.0	29.2	4.18	4.39	*****	0.0694	2.45	0.69
APR 15,85	APR 14,85	30.0	> 100.0	*****	UG 7.27	*****	LG 0.0191	> 10.00	A 3.35
APR 18,85	APR 17,85	13.0	*****	*****	*****	*****	*****	*****	*****
APR 20,85	APR 19,85	433.0	32.0	4.57	5.01	*****	0.0398	5.90	1.09
APR 26,85	APR 25,85	422.0	51.5	4.19	4.16	*****	0.1010	6.25	1.03
MAY 5,85	MAY 4,85	439.0	45.3	UG 6.96	U 7.40	*****	LG 0.0184	6.70	1.18
MAY 7,85	MAY 6,85	327.0	> 100.0	LG 3.55	4.38	*****	0.0755	6.55	0.93
MAY 16,85	MAY 15,85	151.0	> 100.0	4.43	LG 3.52	*****	UG 0.3710	UG 15.90	UG 2.22
MAY 27,85	MAY 26,85	883.0	33.2	4.45	D 4.42	*****	0.0706	4.80	0.73
MAY 28,85	MAY 27,85	442.0	LG 7.1	UG 5.32	UG 5.64	*****	0.0265	LG 0.80	0.21
MAY 31,85	MAY 30,85	390.0	36.3	*****	4.41	*****	0.0625	5.55	0.83
JUN 1,85	MAY 31,85	65.0	31.0	*****	4.63	*****	0.0469	5.45	0.70
JUN 8,85	JUN 7,85	78.0	68.2	*****	U 7.65	*****	LG 0.0081	8.50	1.85
JUN 9,85	JUN 8,85	410.0	12.6	4.60	4.84	*****	0.0306	1.45	0.35
JUN 12,85	JUN 11,85	595.0	LG 5.1	*****	UG 6.71	*****	LG 0.0148	LG 0.60	0.14
JUN 13,85	JUN 12,85	6.0	*****	*****	*****	*****	*****	*****	*****
JUN 16,85	JUN 15,85	879.0	28.8	4.23	4.19	*****	0.0836	2.75	0.39
JUN 17,85	JUN 16,85	612.0	25.9	4.40	4.39	*****	0.0632	2.75	0.46
JUN 18,85	JUN 17,85	599.0	24.3	4.28	4.44	*****	0.0583	2.55	0.36
JUN 19,85	JUN 18,85	33.0	11.5	*****	*****	*****	*****	1.65	0.43
JUN 20,85	JUN 19,85	29.0	LG 8.2	*****	UG 6.65	*****	LG 0.0152	LG 0.65	LG 0.09
JUN 23,85	JUN 22,85	1874.0	20.2	4.20	4.48	*****	0.0564	2.35	0.24
JUL 2,85	JUL 1,85	6.0	*****	*****	*****	*****	*****	*****	*****
JUL 3,85	JUL 2,85	39.0	> 100.0	*****	LG 3.52	*****	UG 0.4050	UG 17.25	1.91
JUL 6,85	JUL 5,85	368.0	12.4	UG 5.29	UG 6.61	*****	LG 0.0168	1.70	0.32
JUL 7,85	JUL 6,85	160.0	LG 9.7	UG 5.35	UG 6.10	*****	LG 0.0184	1.55	0.30
JUL 8,85	JUL 7,85	2662.0	15.0	*****	4.61	*****	0.0437	1.40	0.19
JUL 12,85	JUL 11,85	665.0	65.5	*****	3.94	*****	0.1500	3.85	1.77
JUL 14,85	JUL 13,85	180.0	35.1	*****	4.35	*****	0.0708	4.75	0.60
JUL 16,85	JUL 15,85	300.0	33.6	*****	4.32	*****	0.0774	3.45	0.74
JUL 20,85	JUL 19,85	242.0	47.1	4.18	4.28	*****	0.0851	7.10	0.85
JUL 22,85	JUL 21,85	691.0	*****	*****	3.78	*****	0.2270	7.90	1.13
JUL 26,85	JUL 25,85	110.0	19.2	*****	UG 6.59	*****	LG 0.0193	3.65	0.72
JUL 31,85	JUL 30,85	136.0	17.9	UG 6.50	UG 7.23	*****	LG 0.0148	2.15	0.44
AUG 1,85	JUL 31,85	29.0	48.2	*****	UG 7.18	*****	LG 0.0143	*****	0.88
AUG 7,85	AUG 6,85	10.0	*****	*****	*****	*****	*****	*****	*****
AUG 11,85	AUG 10,85	147.0	18.5	UG 5.91	UG 6.49	*****	LG 0.0183	4.05	0.51

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 5,85	APR 4,85	0.71	0.22	0.090	<T 0.005	0.100	0.540	0.0490
APR 6,85	APR 5,85	0.74	0.44	0.105	<T 0.020	0.270	0.400	0.0302
APR 7,85	APR 6,85	0.10	0.13	0.040	<T 0.020	0.075	0.310	0.0355
APR 8,85	APR 7,85	0.30	0.17	0.045	0.040	0.065	0.575	0.0407
APR 15,85	APR 14,85	*****	1.20	*****	*****	*****	*****	LG 0.0001
APR 18,85	APR 17,85	*****	*****	*****	*****	*****	*****	*****
APR 20,85	APR 19,85	UG 1.48	0.21	0.250	0.050	0.065	UG 1.580	0.0098
APR 26,85	APR 25,85	0.80	0.41	0.165	0.110	0.195	1.200	0.0692
MAY 5,85	MAY 4,85	U 4.95	0.43	U 1.050	0.115	0.100	1.450	U 0.0000
MAY 7,85	MAY 6,85	0.79	0.26	0.135	0.055	0.045	1.700	0.0417
MAY 16,85	MAY 15,85	0.96	0.51	0.235	0.095	0.090	1.450	UG 0.3020
MAY 27,85	MAY 26,85	0.74	0.12	0.155	0.030	<T 0.020	0.950	D 0.0380
MAY 28,85	MAY 27,85	0.09	LG 0.02	<T 0.015	<T 0.010	<T 0.010	0.430	LG 0.0023
MAY 31,85	MAY 30,85	1.51	0.24	0.350	0.070	0.130	0.670	0.0389
JUN 1,85	MAY 31,85	D 1.56	0.26	0.310	0.170	0.195	0.785	0.0234
JUN 8,85	JUN 7,85	U 11.58	0.71	U 1.840	U 0.835	0.275	1.000	U 0.0000
JUN 9,85	JUN 8,85	0.53	0.07	0.090	0.045	0.050	0.260	0.0145
JUN 12,85	JUN 11,85	0.35	<W 0.01	0.085	0.025	<T 0.010	0.275	LG 0.0002
JUN 13,85	JUN 12,85	*****	*****	*****	*****	*****	*****	*****
JUN 16,85	JUN 15,85	0.20	<T 0.06	0.040	0.045	<T 0.015	0.185	0.0646
JUN 17,85	JUN 16,85	0.17	0.09	0.015	0.045	<T 0.010	0.590	0.0407
JUN 18,85	JUN 17,85	0.17	0.09	0.020	0.035	0.025	0.400	0.0363
JUN 19,85	JUN 18,85	*****	0.24	*****	*****	*****	*****	*****
JUN 20,85	JUN 19,85	*****	0.09	*****	*****	*****	*****	*****
JUN 23,85	JUN 22,85	0.24	0.09	0.040	0.030	0.025	0.240	LG 0.0002
JUL 2,85	JUL 1,85	*****	*****	*****	*****	*****	*****	*****
JUL 3,85	JUL 2,85	*****	0.53	*****	*****	*****	0.565	UG 0.3020
JUL 6,85	JUL 5,85	0.73	0.11	0.185	0.240	0.025	0.150	LG 0.0002
JUL 7,85	JUL 6,85	0.36	0.12	0.085	0.090	0.070	0.555	LG 0.0008
JUL 8,85	JUL 7,85	0.15	<T 0.02	0.025	0.030	<T 0.010	0.180	0.0245
JUL 12,85	JUL 11,85	0.83	0.32	0.215	0.110	0.035	0.575	0.1148
JUL 14,85	JUL 13,85	0.93	0.12	0.150	0.140	0.045	0.630	0.0447
JUL 16,85	JUL 15,85	0.40	0.25	0.065	0.150	0.100	0.805	0.0479
JUL 20,85	JUL 19,85	1.55	0.22	0.280	0.100	0.040	0.865	0.0525
JUL 22,85	JUL 21,85	0.27	0.32	0.050	<T 0.015	<T 0.010	0.665	0.1660
JUL 26,85	JUL 25,85	UG 1.99	0.12	0.380	0.075	0.040	0.210	LG 0.0003
JUL 31,85	JUL 30,85	1.99	0.34	0.485	B 0.340	0.210	D 0.690	LG 0.0001
AUG 1,85	JUL 31,85	*****	0.49	*****	*****	*****	*****	LG 0.0001
AUG 7,85	AUG 6,85	*****	*****	*****	*****	*****	*****	*****
AUG 11,85	AUG 10,85	1.02	0.09	0.250	0.195	0.035	0.890	LG 0.0003

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
AUG 15,85	AUG 14,85	800 800	2100 700	1	10.0	1	63364	2	1	95	AC
AUG 16,85	AUG 15,85	800 800	930 1100	1	3.6	1	63365	2	1	93	
AUG 19,85	AUG 18,85	800 800	1500 1600	1	6.8	1	63366	2	1	95	
AUG 20,85	AUG 19,85	800 800	****	1	0.1	1	63367	2	1	31	E N
AUG 24,85	AUG 23,85	800 800	2300 700	1	33.6	1	63368	2	1	111	C
AUG 25,85	AUG 24,85	800 800	2300 700	1	5.2	1	63371	2	1	121	C N
AUG 26,85	AUG 25,85	800 800	1900 600	1	18.0	1	63372	2	1	102	
AUG 27,85	AUG 26,85	800 800	****	1	9.8	1	63373	2	1	32	U G
AUG 30,85	AUG 29,85	800 800	2100 800	1	12.8	1	63374	2	1	95	
AUG 31,85	AUG 30,85	800 800	900 1200	1	3.3	1	63375	2	1	90	C
SEP 1,85	AUG 31,85	800 800	****	1	4.8	1	63376	2	1	90	C
SEP 5,85	SEP 4,85	800 800	****	1	6.0	1	63377	2	1	95	J
SEP 6,85	SEP 5,85	800 800	2330 600	1	14.2	1	63378	2	1	95	C
SEP 8,85	SEP 7,85	800 800	2400 700	1	6.2	1	63381	2	1	87	C
SEP 9,85	SEP 8,85	800 800	2100 2200	1	0.4	1	63382	2	1	19	E N
SEP 10,85	SEP 9,85	800 800	****	1	26.6	1	63383	2	1	101	C
SEP 19,85	SEP 18,85	800 800	1500 1600	1	1.2	1	63384	2	1	15	E N
SEP 24,85	SEP 22,85	800 800	2300 500	1	18.0	1	63386	2	1	100	C Z
SEP 25,85	SEP 24,85	800 800	600 800	1	3.2	1	63389	2	1	95	
SEP 26,85	SEP 25,85	800 800	800 1200	1	1.0	1	63390	2	1	31	N
OCT 1,85	SEP 26,85	800 800	1200 300	1	7.0	1	63391	2	1	88	Z
OCT 5,85	OCT 1,85	800 800	****	1	5.8	1	63392	2	1	89	Z
OCT 6,85	OCT 5,85	800 800	****	1	9.0	1	63393	2	1	97	Q J
OCT 7,85	OCT 6,85	800 800	1900 2200	1	0.6	1	63394	2	1	28	N
OCT 9,85	OCT 8,85	800 800	100 800	1	6.1	1	63395	2	1	98	
OCT 10,85	OCT 9,85	800 800	800	1	0.6	1	63396	2	1	41	N
OCT 11,85	OCT 10,85	800 800	****	1	3.4	1	63397	2	1	90	H
OCT 13,85	OCT 12,85	800 800	1200	1	14.3	1	63398	2	1	97	
OCT 15,85	OCT 14,85	800 800	300 600	1	2.8	1	63401	2	1	86	
OCT 16,85	OCT 15,85	800 800	1000 1200	1	4.2	1	63402	2	1	88	C
OCT 23,85	OCT 22,85	800 800	2000 100	1	0.5	1	63403	2	1	40	E N
OCT 24,85	OCT 23,85	800 800	600 800	1	1.4	1	63404	2	1	80	C
OCT 25,85	OCT 24,85	800 800	800 1200	1	0.6	1	63405	2	1	85	C
NOV 3,85	NOV 2,85	800 800	1400 800	1	13.0	1	63406	2	1	88	
NOV 4,85	NOV 3,85	800 800	800 2400	1	18.3	1	63409	2	1	98	
NOV 5,85	NOV 4,85	800 800	900 2400	1	14.7	1	63410	2	1	96	C
NOV 6,85	NOV 5,85	800 800	****	1	1.0	1	63411	2	1	17	E N
NOV 7,85	NOV 6,85	800 800	****	1	0.8	1	63412	2	1	37	N
NOV 8,85	NOV 7,85	800 800	930 1530	1	4.2	1	63413	2	1	83	
NOV 9,85	NOV 8,85	800 800	****	1	****	1	63414	2	1	****	C

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 15,85	AUG 14,85	610.0	19.0	4.48	4.51	*****	0.0526	2.10	0.45
AUG 16,85	AUG 15,85	215.0	26.6	4.40	4.42	*****	0.0716	2.70	0.54
AUG 19,85	AUG 18,85	418.0	55.6	*****	3.96	*****	0.1490	6.20	0.61
AUG 20,85	AUG 19,85	2.0	*****	*****	*****	*****	*****	*****	*****
AUG 24,85	AUG 23,85	2395.0	22.0	4.42	4.41	*****	0.0623	2.00	0.27
AUG 25,85	AUG 24,85	404.0	46.2	4.08	4.06	*****	0.1180	3.10	0.85
AUG 26,85	AUG 25,85	1177.0	31.1	4.25	4.24	*****	0.0836	2.70	0.33
AUG 27,85	AUG 26,85	207.0	56.8	3.99	3.96	*****	0.1430	4.90	0.61
AUG 30,85	AUG 29,85	786.0	80.8	*****	3.86	*****	0.1990	9.05	0.99
AUG 31,85	AUG 30,85	191.0	LG 7.0	*****	5.08	*****	0.0287	LG 0.85	LG 0.08
SEP 1,85	AUG 31,85	277.0	61.9	*****	4.00	*****	0.1550	6.40	0.99
SEP 5,85	SEP 4,85	367.0	31.4	4.57	4.37	*****	0.0763	3.95	0.55
SEP 6,85	SEP 5,85	873.0	22.0	4.47	4.47	*****	0.0631	2.40	0.23
SEP 8,85	SEP 7,85	347.0	23.4	4.56	4.62	*****	0.0515	2.60	0.64
SEP 9,85	SEP 8,85	5.0	*****	*****	*****	*****	*****	*****	*****
SEP 10,85	SEP 9,85	1737.0	34.8	4.23	4.26	*****	0.0909	2.50	0.67
SEP 19,85	SEP 18,85	12.0	*****	*****	*****	*****	*****	*****	*****
SEP 24,85	SEP 22,85	1165.0	20.0	4.43	4.52	*****	0.0528	2.20	0.33
SEP 25,85	SEP 24,85	196.0	42.7	4.04	4.11	*****	0.1040	4.60	0.57
SEP 26,85	SEP 25,85	20.0	*****	*****	3.86	*****	0.1910	*****	*****
OCT 1,85	SEP 26,85	398.0	43.7	4.13	4.22	*****	0.0892	4.90	0.80
OCT 5,85	OCT 1,85	331.0	46.5	4.17	4.23	*****	0.0936	5.05	0.87
OCT 6,85	OCT 5,85	565.0	15.2	UG 5.09	UG 7.07	*****	0.0251	2.30	LG 0.13
OCT 7,85	OCT 6,85	11.0	*****	*****	*****	*****	*****	*****	*****
OCT 9,85	OCT 8,85	387.0	44.1	*****	4.21	*****	0.0926	6.25	0.81
OCT 10,85	OCT 9,85	16.0	*****	*****	*****	*****	*****	*****	*****
OCT 11,85	OCT 10,85	198.0	20.6	*****	4.65	*****	0.0443	2.05	0.41
OCT 13,85	OCT 12,85	893.0	33.0	4.24	*****	*****	*****	3.75	0.42
OCT 15,85	OCT 14,85	156.0	29.4	4.22	*****	*****	*****	2.65	0.36
OCT 16,85	OCT 15,85	237.0	37.9	4.29	4.41	*****	0.0700	3.30	1.35
OCT 23,85	OCT 22,85	13.0	*****	*****	*****	*****	*****	*****	*****
OCT 24,85	OCT 23,85	72.0	40.0	*****	4.29	*****	0.0829	4.65	0.77
OCT 25,85	OCT 24,85	33.0	50.1	*****	4.19	*****	0.1000	4.95	1.17
NOV 3,85	NOV 2,85	734.0	23.3	*****	4.44	*****	0.0591	2.35	0.47
NOV 4,85	NOV 3,85	1157.0	16.7	*****	4.53	*****	0.0493	1.15	0.30
NOV 5,85	NOV 4,85	913.0	LG 7.4	*****	5.02	*****	0.0258	LG 0.50	LG 0.10
NOV 6,85	NOV 5,85	11.0	*****	*****	*****	*****	*****	*****	*****
NOV 7,85	NOV 6,85	19.0	*****	*****	3.85	*****	0.1740	*****	*****
NOV 8,85	NOV 7,85	224.0	29.7	*****	4.27	*****	0.0783	2.55	0.59
NOV 9,85	NOV 8,85	342.0	36.0	*****	4.22	*****	0.0841	1.95	1.18

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 15,85	AUG 14,85	0.50	0.10	0.095	0.025	<T 0.015	0.150	0.0309
AUG 16,85	AUG 15,85	0.14	0.15	0.035	0.055	0.090	0.550	0.0380
AUG 19,85	AUG 18,85	0.35	0.09	0.065	0.050	0.030	0.425	0.1096
AUG 20,85	AUG 19,85	*****	*****	*****	*****	*****	*****	*****
AUG 24,85	AUG 23,85	0.14	<T 0.06	0.035	<T 0.015	<T 0.010	0.155	0.0389
AUG 25,85	AUG 24,85	0.14	0.14	0.030	0.030	<T 0.015	0.225	0.0871
AUG 26,85	AUG 25,85	0.07	<T 0.04	<T 0.005	<T 0.015	<T 0.005	0.155	0.0575
AUG 27,85	AUG 26,85	0.12	0.17	0.025	0.030	0.030	0.200	0.1096
AUG 30,85	AUG 29,85	0.58	0.28	0.095	0.075	0.025	D 0.680	0.1380
AUG 31,85	AUG 30,85	0.10	0.07	<T 0.010	<T 0.010	<T 0.020	0.150	0.0083
SEP 1,85	AUG 31,85	0.46	0.28	0.075	0.060	0.045	0.660	0.1000
SEP 5,85	SEP 4,85	0.49	0.14	0.110	0.065	0.080	0.470	0.0427
SEP 6,85	SEP 5,85	0.19	0.08	0.030	<T 0.020	0.045	0.240	0.0339
SEP 8,85	SEP 7,85	0.45	0.08	0.080	0.050	0.075	0.520	0.0240
SEP 9,85	SEP 8,85	*****	*****	*****	*****	*****	*****	*****
SEP 10,85	SEP 9,85	0.16	0.09	0.025	<T 0.010	0.020	0.350	0.0550
SEP 19,85	SEP 18,85	*****	*****	*****	*****	*****	*****	*****
SEP 24,85	SEP 22,85	0.29	<T 0.06	0.050	0.040	0.035	0.265	0.0302
SEP 25,85	SEP 24,85	0.43	0.26	0.090	0.075	0.120	0.375	0.0776
SEP 26,85	SEP 25,85	*****	*****	*****	*****	*****	*****	0.1380
OCT 1,85	SEP 26,85	0.71	0.20	0.145	0.085	0.125	0.620	0.0603
OCT 5,85	OCT 1,85	1.06	0.23	0.170	0.065	0.035	0.595	0.0589
OCT 6,85	OCT 5,85	0.09	0.13	0.035	UG 0.430	0.035	1.100	LG 0.0001
OCT 7,85	OCT 6,85	*****	*****	*****	*****	*****	*****	*****
OCT 9,85	OCT 8,85	1.34	0.24	0.215	0.115	0.055	0.505	0.0617
OCT 10,85	OCT 9,85	*****	*****	*****	*****	*****	*****	*****
OCT 11,85	OCT 10,85	0.17	0.17	0.045	0.030	0.060	0.355	0.0224
OCT 13,85	OCT 12,85	0.13	0.20	0.050	0.040	0.115	0.425	*****
OCT 15,85	OCT 14,85	0.04	0.11	0.025	0.050	0.050	D 0.950	*****
OCT 16,85	OCT 15,85	0.39	0.18	0.100	0.100	0.065	1.180	0.0389
OCT 23,85	OCT 22,85	*****	*****	*****	*****	*****	*****	*****
OCT 24,85	OCT 23,85	0.77	0.21	0.135	0.105	0.080	0.630	0.0513
OCT 25,85	OCT 24,85	*****	0.20	*****	*****	*****	1.050	0.0646
NOV 3,85	NOV 2,85	0.33	0.10	0.090	<T 0.010	0.030	0.295	0.0363
NOV 4,85	NOV 3,85	0.07	0.09	0.020	0.020	0.040	0.140	0.0295
NOV 5,85	NOV 4,85	<T 0.03	<T 0.05	<T 0.010	D 0.065	0.040	0.055	0.0095
NOV 6,85	NOV 5,85	*****	*****	*****	*****	*****	*****	*****
NOV 7,85	NOV 6,85	*****	*****	*****	*****	*****	*****	0.1413
NOV 8,85	NOV 7,85	0.14	0.15	0.020	<T 0.020	0.025	0.470	0.0537
NOV 9,85	NOV 8,85	0.65	0.29	0.080	0.070	0.070	0.355	0.0603

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE	
NOV 10,85	NOV 9,85	800 800	****	****	1	21.8	1	63415	2	1	92	
NOV 11,85	NOV 10,85	800 800	****	****	1	1.0	1	63416	2	1	51	C
NOV 13,85	NOV 12,85	800 800	2000 800		1	16.1	1	63417	2	1	95	
NOV 14,85	NOV 13,85	800 800	1500 800		1	7.2	1	63418	2	1	126	N
NOV 16,85	NOV 15,85	800 800	****	****	1	****	1	63419	2	1	****	
NOV 17,85	NOV 16,85	800 800	****	****	3	1.1	1	63420	2	1	158	NHM
NOV 18,85	NOV 17,85	800 800	900 ****		1	5.8	1	63421	2	1	88	
NOV 19,85	NOV 18,85	800 800	1500 ****		1	8.3	1	63422	2	1	92	
NOV 20,85	NOV 19,85	800 800	1700 ****		1	4.7	1	63423	2	1	87	AC
NOV 23,85	NOV 22,85	800 800	900 1200		2	****	1	63424	2	1	****	CA CM
NOV 26,85	NOV 25,85	800 800	****	****	2	****	1	63425	2	1	****	C H
NOV 27,85	NOV 26,85	800 800	900 ****		3	****	1	63426	2	1	****	
DEC 1,85	NOV 30,85	800 800	****	****	3	****	1	63428	2	1	****	E
DEC 2,85	DEC 1,85	800 800	500 800		2	12.2	1	63429	2	1	98	C
DEC 3,85	DEC 2,85	800 800	****	****	2	****	1	63432	2	1	****	C CM
DEC 6,85	DEC 5,85	800 800	1600 2000		3	4.8	2	63433	2	1	69	H
DEC 9,85	DEC 8,85	800 800	900 ****		3	1.6	2	63434	2	1	76	
DEC 10,85	DEC 9,85	800 800	900 1800		3	1.0	2	63435	2	1	73	C
DEC 11,85	DEC 10,85	800 800	900 1700		3	3.4	2	63436	2	1	78	C
DEC 12,85	DEC 11,85	800 800	****	****	2	4.2	2	63437	2	1	39	C N
DEC 13,85	DEC 12,85	800 800	****	****	2	0.5	2	63438	2	1	31	E N
DEC 14,85	DEC 13,85	800 800	800 800		2	3.6	2	63439	2	1	71	C
DEC 15,85	DEC 14,85	800 800	800 ****		2	4.0	2	63440	2	1	38	C NJHM
DEC 16,85	DEC 15,85	800 800	900 ****		2	1.0	2	63441	2	1	65	C
DEC 17,85	DEC 16,85	800 800	1300 1800		2	4.4	2	63442	2	1	41	C N
DEC 18,85	DEC 17,85	800 800	900 ****		2	5.2	2	63443	2	1	50	
DEC 19,85	DEC 18,85	800 800	****	****	2	2.0	2	63444	2	1	1	E N
DEC 20,85	DEC 19,85	800 800	****	****	2	3.1	2	63445	2	1	38	C N
DEC 21,85	DEC 20,85	800 800	****	****	2	2.4	2	63446	2	1	3	E N
DEC 22,85	DEC 21,85	800 800	****	****	2	0.1	2	63447	2	1	****	E
DEC 24,85	DEC 23,85	800 800	900 1200		2	3.5	2	63448	2	1	21	N
DEC 25,85	DEC 24,85	800 800	****	****	2	5.3	2	63449	2	1	17	C N
DEC 26,85	DEC 25,85	800 800	****	****	2	3.9	2	63450	2	1	44	C N
DEC 28,85	DEC 27,85	800 800	800 800		2	13.1	2	63451	2	1	15	N
DEC 29,85	DEC 28,85	800 800	800 800		2	5.8	2	63452	2	1	46	N
DEC 30,85	DEC 29,85	800 800	800 1000		2	1.5	2	63453	2	1	16	N
DEC 31,85	DEC 30,85	800 800	****	****	2	0.5	2	63454	2	1	81	
JAN 1,86	DEC 31,85	800 800	1500 1900		2	2.1	2	63455	2	1	9	E N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 10,85	NOV 9,85	1299.0	22.5	4.37		4.39	*****	0.0626	1.50
NOV 11,85	NOV 10,85	33.0	*****	*****	B	7.34	*****	LG 0.0184	0.43
NOV 13,85	NOV 12,85	988.0	28.8	*****		4.31	*****	0.0781	*****
NOV 14,85	NOV 13,85	582.0	14.4	*****		4.62	*****	2.75	0.34
NOV 16,85	NOV 15,85	436.0	D 35.8	*****		4.17	*****	1.20	0.16
NOV 17,85	NOV 16,85	112.0	8.2	*****	UG	7.08	*****	0.1020	D 0.45
NOV 18,85	NOV 17,85	329.0	14.8	*****		4.56	*****	LG 0.0153	LG 0.07
NOV 19,85	NOV 18,85	491.0	25.3	4.33		4.33	*****	0.0528	1.40
NOV 20,85	NOV 19,85	264.0	23.0	4.40		4.57	*****	0.0742	0.14
NOV 23,85	NOV 22,85	564.0	LG 7.4	UG 6.41	UG	6.82	*****	0.0512	2.30
NOV 26,85	NOV 25,85	280.0	21.9	4.44		4.48	*****	0.0175	0.17
NOV 27,85	NOV 26,85	108.0	47.6	4.02		4.04	*****	0.0593	2.95
DEC 1,85	NOV 30,85	14.0	*****	*****		*****	*****	0.1280	0.95
DEC 2,85	DEC 1,85	768.0	19.7	4.43		4.47	*****	2.20	0.45
DEC 3,85	DEC 2,85	84.0	14.8	*****	U	7.79	*****	4.30	0.54
DEC 6,85	DEC 5,85	213.0	19.2	UG 5.13	UG	5.23	*****	0.0558	*****
DEC 9,85	DEC 8,85	78.0	> 100.0	*****	LG	3.30	*****	1.60	0.30
DEC 10,85	DEC 9,85	47.0	> 100.0	*****	LG	3.22	*****	LG 0.0103	0.20
DEC 11,85	DEC 10,85	171.0	UG 82.9	3.83	LG	3.73	*****	0.0293	0.80
DEC 12,85	DEC 11,85	107.0	31.0	4.33		4.23	*****	UG 0.5390	UG 5.75
DEC 13,85	DEC 12,85	10.0	*****	*****		*****	*****	UG 0.6380	*****
DEC 14,85	DEC 13,85	164.0	11.6	UG 4.88		4.81	*****	0.2020	5.60
DEC 15,85	DEC 14,85	99.0	14.4	UG 6.08	UG	6.75	*****	0.0774	2.45
DEC 16,85	DEC 15,85	42.0	21.5	*****		4.78	*****	2.45	0.73
DEC 17,85	DEC 16,85	116.0	17.3	*****		4.53	*****	0.0317	*****
DEC 18,85	DEC 17,85	170.0	13.9	*****		4.69	*****	LG 0.45	0.42
DEC 19,85	DEC 18,85	2.0	*****	*****		*****	*****	1.00	0.81
DEC 20,85	DEC 19,85	77.0	26.6	*****		4.28	*****	0.0422	1.00
DEC 21,85	DEC 20,85	6.0	*****	*****		*****	*****	LG 0.45	0.57
DEC 22,85	DEC 21,85	*****	*****	*****		*****	*****	LG 0.35	0.48
DEC 24,85	DEC 23,85	48.0	37.6	*****		4.20	*****	0.0420	*****
DEC 25,85	DEC 24,85	61.0	23.0	*****		4.41	*****	0.0767	0.93
DEC 26,85	DEC 25,85	112.0	14.9	*****		4.63	*****	0.0953	*****
DEC 28,85	DEC 27,85	126.0	18.7	*****		4.47	*****	3.10	0.88
DEC 29,85	DEC 28,85	172.0	19.2	4.55		4.51	*****	0.0664	0.57
DEC 30,85	DEC 29,85	16.0	*****	*****		4.31	*****	0.0472	1.70
DEC 31,85	DEC 30,85	26.0	*****	*****		4.80	*****	0.0572	0.38
JAN 1,86	DEC 31,85	13.0	*****	*****		*****	*****	LG 0.40	0.57
								0.0559	0.55
								0.0799	*****
								0.0467	*****
								*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY/AEROCHEM #03

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 10,85	NOV 9,85	0.10	0.15	0.020	0.030	0.035	0.195	0.0407
NOV 11,85	NOV 10,85	*****	*****	*****	*****	*****	*****	B 0.0000
NOV 13,85	NOV 12,85	0.21	0.22	0.060	<T 0.015	0.035	0.250	0.0490
NOV 14,85	NOV 13,85	0.07	<T 0.06	0.015	<T 0.010	0.025	0.075	0.0240
NOV 16,85	NOV 15,85	0.07	0.14	<T 0.015	<T 0.010	0.040	D 0.240	0.0676
NOV 17,85	NOV 16,85	0.15	0.85	0.045	UG 0.485	0.625	0.220	LG 0.0001
NOV 18,85	NOV 17,85	0.19	<T 0.06	0.045	<T 0.005	<T 0.015	0.085	0.0275
NOV 19,85	NOV 18,85	0.11	0.15	0.030	<T 0.005	0.025	0.060	0.0468
NOV 20,85	NOV 19,85	0.09	0.25	0.040	D 0.215	0.210	0.650	0.0269
NOV 23,85	NOV 22,85	0.43	0.09	0.160	0.110	0.135	0.125	LG 0.0002
NOV 26,85	NOV 25,85	0.66	0.12	0.145	0.040	0.070	0.175	0.0331
NOV 27,85	NOV 26,85	0.25	0.16	0.060	0.040	0.040	0.300	0.0912
DEC 1,85	NOV 30,85	*****	*****	*****	*****	*****	*****	*****
DEC 2,85	DEC 1,85	0.10	<T 0.06	<T 0.010	<T 0.005	<T 0.020	0.145	0.0339
DEC 3,85	DEC 2,85	U 2.33	0.12	U 0.570	0.030	0.055	LG 0.040	U 0.0000
DEC 6,85	DEC 5,85	B 1.58	0.63	UG 0.355	0.025	0.200	0.420	LG 0.0059
DEC 9,85	DEC 8,85	0.44	1.06	0.065	0.155	0.210	UG 4.200	UG 0.5012
DEC 10,85	DEC 9,85	*****	UG 1.64	*****	*****	*****	*****	UG 0.6026
DEC 11,85	DEC 10,85	0.14	0.37	0.020	0.035	0.050	1.050	UG 0.1862
DEC 12,85	DEC 11,85	0.15	0.16	0.025	<T 0.010	0.050	0.510	0.0589
DEC 13,85	DEC 12,85	*****	*****	*****	*****	*****	*****	*****
DEC 14,85	DEC 13,85	0.11	<T 0.06	0.025	<T 0.005	0.025	0.200	0.0155
DEC 15,85	DEC 14,85	1.00	0.43	0.240	0.045	0.135	0.140	LG 0.0002
DEC 16,85	DEC 15,85	*****	0.65	*****	*****	*****	0.220	0.0166
DEC 17,85	DEC 16,85	*****	0.25	*****	*****	*****	0.140	0.0295
DEC 18,85	DEC 17,85	0.42	0.35	0.080	<T 0.005	0.065	0.065	0.0204
DEC 19,85	DEC 18,85	*****	*****	*****	*****	*****	*****	*****
DEC 20,85	DEC 19,85	0.32	0.28	0.040	<W 0.005	0.070	0.090	0.0525
DEC 21,85	DEC 20,85	*****	*****	*****	*****	*****	*****	*****
DEC 22,85	DEC 21,85	*****	*****	*****	*****	*****	*****	*****
DEC 24,85	DEC 23,85	0.20	0.25	0.035	0.040	0.045	0.790	0.0631
DEC 25,85	DEC 24,85	0.22	0.09	0.045	<T 0.005	0.040	0.310	0.0389
DEC 26,85	DEC 25,85	0.12	0.43	0.015	<W 0.005	0.085	0.205	0.0234
DEC 28,85	DEC 27,85	0.19	0.12	<T 0.015	<W 0.005	0.050	0.060	0.0339
DEC 29,85	DEC 28,85	0.21	0.18	0.030	<T 0.005	0.055	0.275	0.0309
DEC 30,85	DEC 29,85	*****	*****	*****	*****	*****	*****	0.0490
DEC 31,85	DEC 30,85	*****	*****	*****	*****	*****	*****	0.0158
JAN 1,86	DEC 31,85	*****	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM

#04

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.		PRECIP START/END HR. HR.		SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE	
JAN 2,85	JAN 1,85	730	530	****	****	3	16.3	2	62120	2	1	99		
JAN 8,85	JAN 7,85	530	530	1530	1830	2	9.5	2	62121	2	1	55		
JAN 11,85	JAN 10,85	530	530	****	****	2	0 7	2	62123	2	1	****	E	
JAN 15,85	JAN 14,85	530	530	1100	1500	2	2.0	2	62124	2	1	35		N
JAN 17,85	JAN 16,85	530	530	****	530	2	5.3	2	62125	2	1	41		N
JAN 18,85	JAN 17,85	530	530	1700	****	2	2.0	2	62126	2	1	49		N
JAN 19,85	JAN 18,85	530	830	****	****	2	4.6	2	62127	2	1	47		N
JAN 20,85	JAN 19,85	830	1000	****	****	2	5.9	2	62128	2	1	38		N
JAN 21,85	JAN 20,85	1000	830	****	****	2	7.5	2	62129	2	1	9	C	N
JAN 22,85	JAN 21,85	830	530	****	****	2	4.7	2	62130	2	1	33		NC
JAN 23,85	JAN 22,85	530	530	530	1200	2	1.4	2	62131	2	1	****	E	
JAN 24,85	JAN 23,85	530	530	****	530	2	2.4	2	62132	2	1	48		N
JAN 25,85	JAN 24,85	530	530	****	****	2	5.1	2	62133	2	1	42		N
JAN 29,85	JAN 28,85	530	530	****	****	2	1.7	2	62134	2	1	U 51	F	
FEB 1,85	JAN 31,85	530	530	****	****	2	2.5	2	62135	2	1	U 52	F	
FEB 3,85	FEB 2,85	830	530	****	****	2	0.8	2	62136	2	1	48		N
FEB 6,85	FEB 5,85	530	530	1100	1400	2	4.4	2	62137	2	1	10		N
FEB 7,85	FEB 6,85	530	530	2200	300	2	1.8	2	62138	2	1	69		
FEB 9,85	FEB 8,85	530	1030	900	1700	2	4.1	2	62139	2	1	8		N
FEB 12,85	FEB 11,85	530	530	****	530	3	****	2	62140	2	1	****		
FEB 13,85	FEB 12,85	530	530	530	530	3	29.2	2	62141	2	1	27		N
FEB 14,85	FEB 13,85	530	530	2200	300	2	4.5	2	62142	2	1	54		
FEB 15,85	FEB 14,85	530	530	****	****	2	5.5	*	62143	2	1	60		
FEB 16,85	FEB 15,85	530	530	2200	400	2	1.3	2	62144	2	1	50		
FEB 17,85	FEB 16,85	530	1100	2200	400	2	3.3	2	62145	2	1	47		N
FEB 18,85	FEB 17,85	1100	830	2000	200	2	2.1	*	62146	2	1	60		
FEB 19,85	FEB 18,85	830	1500	2000	730	2	3.9	*	62147	2	1	36		N
FEB 23,85	FEB 20,85	530	1500	****	****	1	30.1	2	62148	2	1	89		Z
FEB 24,85	FEB 23,85	1500	700	1500	300	1	14.8	2	62151	2	1	125	Q	N
FEB 25,85	FEB 24,85	700	530	****	****	1	2.4	2	62152	2	1	90		
FEB 27,85	FEB 26,85	530	830	2300	830	2	5.9	2	62153	2	1	61		
MAR 3,85	MAR 2,85	830	830	****	****	2	6.3	2	62155	2	1	12		NH
MAR 4,85	MAR 3,85	830	900	****	900	2	6.7	2	62156	2	1	****	KE	
MAR 5,85	MAR 4,85	900	930	900	1100	3	52.0	2	62157	2	1	51		
MAR 6,85	MAR 5,85	930	830	930	1030	2	1.6	2	62160	2	1	23	CD	N
MAR 8,85	MAR 7,85	1000	830	2200	500	1	2.4	2	62162	2	1	89		
MAR 10,85	MAR 9,85	530	530	130	500	1	7.4	2	62164	2	1	99	C	
MAR 13,85	MAR 12,85	530	530	1400	1500	2	2.1	2	62165	2	1	****		
MAR 14,85	MAR 13,85	530	530	200	400	3	1.6	2	62166	2	1	65		
MAR 18,85	MAR 17,85	830	530	1200	1400	2	****	2	62167	2	1	****		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM									
#04									
PAGE : 2									
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 2,85	JAN 1,85	1040.0	16.4	*****	4.54	0.0536	0.0525	1.30	0.17
JAN 8,85	JAN 7,85	340.0	43.4	*****	4.13	0.1092	0.1070	3.30	0.85
JAN 11,85	JAN 10,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 15,85	JAN 14,85	46.0	25.6	*****	4.90	0.0388	0.0381	2.80	1.02
JAN 17,85	JAN 16,85	141.0	11.3	*****	4.82	*****	0.0342	LG 0.35	0.30
JAN 18,85	JAN 17,85	64.0	31.8	*****	4.29	*****	0.0770	0.90	0.94
JAN 19,85	JAN 18,85	141.0	26.1	*****	4.32	*****	0.0696	1.00	0.72
JAN 20,85	JAN 19,85	144.0	14.7	*****	4.81	*****	0.0371	LG 0.55	0.48
JAN 21,85	JAN 20,85	45.0	51.2	*****	UG 7.20	*****	LG 0.0179	3.05	0.81
JAN 22,85	JAN 21,85	102.0	8.8	*****	4.95	*****	0.0281	1.10	0.24
JAN 23,85	JAN 22,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 24,85	JAN 23,85	75.0	40.1	*****	4.15	*****	0.0937	2.15	1.18
JAN 25,85	JAN 24,85	138.0	30.0	4.12	4.26	*****	0.0789	0.90	0.87
JAN 29,85	JAN 28,85	56.0	52.0	*****	4.20	*****	0.0956	3.65	1.71
FEB 1,85	JAN 31,85	84.0	60.2	*****	4.00	*****	0.1380	2.25	1.87
FEB 3,85	FEB 2,85	25.0	*****	*****	UG 6.91	LG 0.0200	LG 0.0166	*****	*****
FEB 6,85	FEB 5,85	30.0	46.0	*****	4.20	*****	0.0900	1.95	1.64
FEB 7,85	FEB 6,85	80.0	52.0	*****	3.98	*****	0.1270	0.80	1.59
FEB 9,85	FEB 8,85	22.0	*****	*****	UG 7.24	*****	LG 0.0170	*****	*****
FEB 12,85	FEB 11,85	280.0	21.2	4.35	4.42	*****	0.0597	1.20	0.43
FEB 13,85	FEB 12,85	507.0	19.2	4.37	4.41	*****	0.0549	1.00	0.39
FEB 14,85	FEB 13,85	158.0	29.9	4.21	4.25	*****	0.0761	2.05	0.69
FEB 15,85	FEB 14,85	215.0	LG 7.9	UG 5.14	UG 5.14	*****	0.0251	LG 0.55	0.25
FEB 16,85	FEB 15,85	42.0	43.0	*****	4.07	*****	0.1070	1.20	1.36
FEB 17,85	FEB 16,85	100.0	55.3	*****	3.96	*****	0.1300	2.00	1.65
FEB 18,85	FEB 17,85	82.0	27.8	*****	4.35	*****	0.0669	1.65	0.82
FEB 19,85	FEB 18,85	91.0	51.0	*****	4.08	*****	0.1100	3.00	1.58
FEB 23,85	FEB 20,85	1731.0	28.4	4.19	4.24	*****	0.0787	2.15	0.40
FEB 24,85	FEB 23,85	1193.0	40.6	4.06	4.15	*****	0.0936	3.30	0.69
FEB 25,85	FEB 24,85	139.0	35.0	4.08	4.15	*****	0.0916	3.25	0.41
FEB 27,85	FEB 26,85	232.0	27.6	4.23	4.35	*****	0.0644	1.90	0.77
MAR 3,85	MAR 2,85	50.0	UG 92.8	*****	3.91	*****	0.1650	8.20	UG 3.10
MAR 4,85	MAR 3,85	*****	*****	*****	*****	*****	*****	*****	*****
MAR 5,85	MAR 4,85	1716.0	16.0	4.41	4.52	*****	0.0501	1.95	0.23
MAR 6,85	MAR 5,85	24.0	*****	*****	UG 5.94	*****	LG 0.0192	*****	*****
MAR 8,85	MAR 7,85	138.0	> 100.0	LG 3.62	LG 3.72	*****	UG 0.2480	UG 9.30	UG 2.77
MAR 10,85	MAR 9,85	471.0	33.7	4.14	4.26	*****	0.0785	2.80	0.65
MAR 13,85	MAR 12,85	*****	*****	*****	*****	*****	*****	*****	*****
MAR 14,85	MAR 13,85	67.0	26.8	*****	4.41	*****	0.0637	2.10	0.65
MAR 18,85	MAR 17,85	129.0	42.6	*****	U 7.09	*****	LG 0.0190	4.95	2.23

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 2,85	JAN 1,85	0.10	0.09	0.020	<T 0.005	0.020	0.150	0.0288
JAN 8,85	JAN 7,85	0.14	0.36	0.030	0.035	0.070	0.620	0.0741
JAN 11,85	JAN 10,85	*****	*****	*****	*****	*****	*****	*****
JAN 15,85	JAN 14,85	*****	0.49	*****	*****	*****	0.705	0.0126
JAN 17,85	JAN 16,85	0.15	0.32	0.030	<W 0.005	0.085	0.075	0.0151
JAN 18,85	JAN 17,85	*****	0.45	*****	*****	*****	0.225	0.0513
JAN 19,85	JAN 18,85	0.09	0.23	0.020	<T 0.020	0.035	0.290	0.0479
JAN 20,85	JAN 19,85	0.28	0.48	0.060	<T 0.020	0.260	0.185	0.0155
JAN 21,85	JAN 20,85	*****	UG 6.20	*****	*****	*****	0.330	LG 0.0001
JAN 22,85	JAN 21,85	0.29	0.57	0.065	<T 0.010	0.345	0.195	0.0112
JAN 23,85	JAN 22,85	*****	*****	*****	*****	*****	*****	*****
JAN 24,85	JAN 23,85	*****	0.57	*****	*****	*****	0.560	0.0708
JAN 25,85	JAN 24,85	0.16	0.36	<T 0.015	<T 0.020	0.095	0.220	0.0550
JAN 29,85	JAN 28,85	*****	UG 1.23	*****	*****	*****	1.080	0.0631
FEB 1,85	JAN 31,85	0.67	1.19	0.135	0.055	0.660	0.395	0.1000
FEB 3,85	FEB 2,85	*****	*****	*****	*****	*****	*****	LG 0.0001
FEB 6,85	FEB 5,85	*****	B 1.74	*****	*****	*****	*****	0.0631
FEB 7,85	FEB 6,85	0.13	1.03	0.040	0.020	0.435	D 0.330	0.1047
FEB 9,85	FEB 8,85	*****	*****	*****	*****	*****	*****	LG 0.0001
FEB 12,85	FEB 11,85	0.09	D 0.28	0.030	<T 0.015	0.125	0.100	0.0380
FEB 13,85	FEB 12,85	<W 0.01	0.17	<T 0.010	<W 0.005	0.040	0.115	0.0389
FEB 14,85	FEB 13,85	0.10	0.24	0.035	0.020	0.075	0.380	0.0562
FEB 15,85	FEB 14,85	0.14	0.16	0.040	<T 0.015	0.050	0.190	LG 0.0072
FEB 16,85	FEB 15,85	*****	0.44	*****	*****	*****	*****	0.0851
FEB 17,85	FEB 16,85	0.44	0.60	0.070	<T 0.015	0.185	0.410	0.1096
FEB 18,85	FEB 17,85	0.20	0.51	0.045	0.090	0.245	0.550	0.0447
FEB 19,85	FEB 18,85	0.78	1.09	0.200	0.065	0.630	0.685	0.0832
FEB 23,85	FEB 20,85	<T 0.06	0.11	<T 0.010	<T 0.015	<T 0.020	0.260	0.0575
FEB 24,85	FEB 23,85	0.24	0.80	0.090	0.030	0.605	0.385	0.0708
FEB 25,85	FEB 24,85	0.09	0.11	<T 0.015	0.055	0.025	0.355	0.0708
FEB 27,85	FEB 26,85	0.28	0.17	0.055	<W 0.005	0.060	0.490	0.0447
MAR 3,85	MAR 2,85	UG 2.75	0.79	UG 0.630	0.135	0.555	UG 2.350	0.1230
MAR 4,85	MAR 3,85	*****	*****	*****	*****	*****	*****	*****
MAR 5,85	MAR 4,85	0.14	0.13	0.050	<T 0.020	<T 0.015	0.200	0.0302
MAR 6,85	MAR 5,85	UG 2.44	*****	UG 0.520	0.110	UG 1.740	*****	LG 0.0011
MAR 8,85	MAR 7,85	UG 1.45	0.56	0.175	0.170	0.225	UG 1.650	UG 0.1905
MAR 10,85	MAR 9,85	0.11	0.13	0.025	0.035	0.025	0.530	0.0550
MAR 13,85	MAR 12,85	*****	*****	*****	*****	*****	*****	*****
MAR 14,85	MAR 13,85	0.35	0.20	0.070	0.035	0.055	0.400	0.0389
MAR 18,85	MAR 17,85	U 3.72	0.83	U 0.780	0.095	0.205	1.400	U 0.0001

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
MAR 24,85	MAR 23,85	1130 1330	1800 600	3	9.4	2	62169	2	1	20	NH
MAR 28,85	MAR 27,85	530 530	1500 ****	1	5.4	2	62170	2	1	117	JH
MAR 29,85	MAR 28,85	530 530	800 1000	1	11.6	2	62171	2	1	100	
MAR 31,85	MAR 30,85	830 1100	2000 600	3	4.1	2	62172	2	1	83	J
APR 1,85	MAR 31,85	1100 830	800 1000	3	21.7	2	62173	2	1	99	
APR 2,85	APR 1,85	830 530	**** ****	2	2.2	2	62174	2	1	16	N
APR 3,85	APR 2,85	530 530	**** 530	2	5.2	2	62175	2	1	50	JC
APR 5,85	APR 4,85	530 830	2000 500	1	18.2	2	62176	2	1	91	
APR 6,85	APR 5,85	830 830	1500 1800	1	8.2	2	62179	2	1	124	Q N
APR 8,85	APR 7,85	830 530	2100 400	2	9.2	2	62180	2	1	67	
APR 20,85	APR 19,85	530 830	1000 1300	1	8.2	2	62183	2	1	101	AC
APR 25,85	APR 24,85	530 530	1800 2000	1	19.0	1	62184	2	1	102	A
APR 28,85	APR 27,85	830 830	**** 700	1	3.8	1	62187	2	1	81	
MAY 5,85	MAY 4,85	830 1100	**** 1000	1	7.1	1	62189	2	1	101	J
MAY 6,85	MAY 5,85	1100 530	**** ****	1	0.5	1	62190	2	1	****	
MAY 7,85	MAY 6,85	530 530	1500 1630	1	6.8	1	62191	2	1	78	
MAY 16,85	MAY 15,85	530 530	**** 300	1	2.2	1	62192	2	1	90	J
MAY 21,85	MAY 20,85	530 530	1500 1700	1	10.4	1	62193	2	1	96	C H
MAY 26,85	MAY 25,85	530 1130	1400 2000	1	6.6	1	62196	2	1	94	ACDQ
MAY 27,85	MAY 26,85	1130 530	1130 530	1	18.2	1	62197	2	1	101	C
MAY 28,85	MAY 27,85	530 530	900 1400	1	10.9	1	62198	2	1	94	
MAY 31,85	MAY 30,85	530 530	1600 1730	1	2.7	1	62199	2	1	87	HM
JUN 1,85	MAY 31,85	530 530	**** ****	1	6.1	1	62200	2	1	92	
JUN 8,85	JUN 7,85	530 800	1830 2230	1	2.6	1	62201	2	1	81	M
JUN 9,85	JUN 8,85	830 1200	2300 330	1	3.7	1	62202	2	1	104	HC
JUN 12,85	JUN 11,85	530 530	1100 1830	1	8.3	1	62203	2	1	98	M
JUN 13,85	JUN 12,85	530 530	400 530	1	0.6	1	62204	2	1	****	E
JUN 16,85	JUN 15,85	530 630	130 330	1	11.0	1	62205	2	1	100	A
JUN 17,85	JUN 16,85	630 530	1330 1530	1	4.7	1	62208	2	1	89	
JUN 18,85	JUN 17,85	530 530	1830 30	1	6.3	1	62209	2	1	90	
JUN 19,85	JUN 18,85	530 530	**** ****	1	1.3	1	62210	2	1	62	
JUN 23,85	JUN 22,85	530 630	1400 1600	1	19.4	1	62212	2	1	101	
JUL 2,85	JUL 1,85	800 800	300 700	1	1.1	1	62214	2	1	58	
JUL 6,85	JUL 5,85	830 830	1830 2100	1	4.5	1	62215	2	1	97	A
JUL 7,85	JUL 6,85	830 1100	1730 2000	1	10.1	1	62216	2	1	99	
JUL 8,85	JUL 7,85	1100 530	200 530	1	13.8	1	62217	2	1	102	
JUL 9,85	JUL 8,85	530 530	530 800	1	4.6	1	62218	2	1	142	N
JUL 11,85	JUL 10,85	530 530	530 630	1	1.7	1	62219	2	1	47	NHM
JUL 12,85	JUL 11,85	530 530	200 500	1	5.7	1	62220	2	1	99	
JUL 14,85	JUL 13,85	830 830	100 700	1	2.1	1	62221	2	1	74	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAR 24,85	MAR 23,85	123.0	17.7	*****	4.87	*****	0.0352	2.10	0.61
MAR 28,85	MAR 27,85	406.0	11.7	UG 4.92	UG 5.46	*****	0.0224	2.15	0.25
MAR 29,85	MAR 28,85	748.0	19.8	4.41	4.63	*****	0.0470	2.70	0.37
MAR 31,85	MAR 30,85	220.0	LG 6.0	UG 5.87	UG 6.64	*****	LG 0.0162	0.95	0.11
APR 1,85	MAR 31,85	1386.0	19.9	4.26	4.41	*****	0.0619	1.85	0.21
APR 2,85	APR 1,85	23.0	*****	*****	4.13	*****	0.1080	*****	*****
APR 3,85	APR 2,85	167.0	LG 6.9	4.48	4.89	*****	0.0324	0.70	0.34
APR 5,85	APR 4,85	1069.0	35.5	4.06	4.28	*****	0.0820	3.85	0.77
APR 6,85	APR 5,85	653.0	D 28.4	4.36	4.49	*****	0.0616	3.70	0.65
APR 8,85	APR 7,85	400.0	22.8	4.36	4.44	*****	0.0603	2.10	0.50
APR 20,85	APR 19,85	536.0	30.2	4.40	4.73	*****	0.0528	5.35	0.80
APR 25,85	APR 24,85	1246.0	47.2	4.05	4.12	*****	0.1270	5.50	0.77
APR 28,85	APR 27,85	198.0	38.2	4.51	4.59	*****	0.0543	6.10	0.97
MAY 5,85	MAY 4,85	464.0	24.3	UG 6.26	UG 7.03	*****	LG 0.0195	3.85	0.88
MAY 6,85	MAY 5,85	*****	*****	*****	*****	*****	*****	*****	*****
MAY 7,85	MAY 6,85	341.0	33.0	4.41	4.50	*****	0.0578	5.05	0.72
MAY 16,85	MAY 15,85	127.0	> 100.0	UG 5.11	LG 3.49	*****	UG 0.3930	UG 16.95	UG 2.47
MAY 21,85	MAY 20,85	644.0	23.3	UG 5.13	5.04	*****	0.0381	4.15	0.70
MAY 26,85	MAY 25,85	400.0	44.2	4.30	4.55	*****	0.0797	7.05	1.29
MAY 27,85	MAY 26,85	1181.0	28.5	4.32	4.38	*****	0.0686	3.40	0.47
MAY 28,85	MAY 27,85	662.0	LG 8.6	UG 4.96	UG 5.11	*****	0.0302	LG 0.85	0.21
MAY 31,85	MAY 30,85	151.0	66.0	3.88	3.90	*****	0.1440	7.15	0.99
JUN 1,85	MAY 31,85	360.0	36.5	4.23	4.18	*****	0.0823	4.45	0.55
JUN 8,85	JUN 7,85	135.0	37.0	*****	U 7.37	*****	LG 0.0136	5.00	1.10
JUN 9,85	JUN 8,85	247.0	10.8	4.60	4.87	*****	0.0297	1.75	0.43
JUN 12,85	JUN 11,85	526.0	LG 5.1	*****	UG 6.68	*****	LG 0.0142	LG 0.70	0.14
JUN 13,85	JUN 12,85	*****	*****	*****	*****	*****	*****	*****	*****
JUN 16,85	JUN 15,85	708.0	28.4	4.22	4.29	*****	0.0774	2.90	0.39
JUN 17,85	JUN 16,85	271.0	38.9	4.16	4.21	*****	0.0931	3.50	0.72
JUN 18,85	JUN 17,85	367.0	30.0	4.21	4.33	*****	0.0767	3.00	0.43
JUN 19,85	JUN 18,85	52.0	LG 7.8	*****	UG 6.40	*****	LG 0.0141	LG 0.75	0.26
JUN 23,85	JUN 22,85	1262.0	18.5	4.43	4.55	*****	0.0483	2.05	0.24
JUL 2,85	JUL 1,85	41.0	> 100.0	*****	LG 3.37	*****	UG 0.5550	UG 22.25	1.92
JUL 6,85	JUL 5,85	280.0	17.4	4.53	4.66	*****	0.0427	1.80	0.30
JUL 7,85	JUL 6,85	644.0	29.9	4.35	4.40	*****	0.0697	3.00	0.74
JUL 8,85	JUL 7,85	904.0	15.8	4.42	4.61	*****	0.0459	1.45	0.26
JUL 9,85	JUL 8,85	420.0	LG 8.9	*****	4.84	*****	0.0320	LG 0.90	LG 0.10
JUL 11,85	JUL 10,85	52.0	14.3	*****	UG 6.22	*****	LG 0.0188	2.15	0.42
JUL 12,85	JUL 11,85	362.0	82.8	*****	3.84	*****	0.1990	6.55	UG 2.26
JUL 14,85	JUL 13,85	100.0	75.8	*****	4.02	*****	0.1420	6.55	D 1.67

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAR 24,85	MAR 23,85	0.72	0.18	0.145	<T 0.020	0.060	0.495	0.0135
MAR 28,85	MAR 27,85	0.57	0.12	0.120	D 0.035	0.045	0.415	LG 0.0035
MAR 29,85	MAR 28,85	0.50	0.13	0.045	0.030	0.060	0.475	0.0234
MAR 31,85	MAR 30,85	0.51	0.12	0.135	<T 0.020	0.025	0.210	LG 0.0002
APR 1,85	MAR 31,85	0.14	0.09	<T 0.020	<T 0.015	0.030	0.125	0.0389
APR 2,85	APR 1,85	*****	*****	*****	*****	*****	*****	0.0741
APR 3,85	APR 2,85	0.16	0.07	0.025	<T 0.005	0.025	0.220	0.0129
APR 5,85	APR 4,85	0.73	0.21	0.085	<T 0.015	0.075	0.510	0.0525
APR 6,85	APR 5,85	0.84	D 0.47	0.105	0.045	D 0.290	0.500	0.0324
APR 8,85	APR 7,85	0.14	0.13	0.035	<T 0.005	<T 0.015	0.420	0.0363
APR 20,85	APR 19,85	0.85	0.19	0.150	0.035	0.040	1.350	0.0186
APR 25,85	APR 24,85	0.70	0.18	0.140	0.055	0.065	0.770	0.0759
APR 28,85	APR 27,85	0.74	0.18	0.135	0.065	0.050	UG 1.850	0.0257
MAY 5,85	MAY 4,85	1.87	0.19	0.405	0.055	0.030	1.000	LG 0.0001
MAY 6,85	MAY 5,85	*****	*****	*****	*****	*****	*****	*****
MAY 7,85	MAY 6,85	0.62	0.14	0.095	0.035	0.025	1.350	0.0316
MAY 16,85	MAY 15,85	1.54	0.64	0.400	0.105	D 0.095	1.150	UG 0.3236
MAY 21,85	MAY 20,85	1.21	0.14	0.260	0.065	0.025	0.780	0.0091
MAY 26,85	MAY 25,85	1.33	0.26	0.315	0.205	0.030	1.750	0.0282
MAY 27,85	MAY 26,85	0.32	0.06	0.060	0.030	<T 0.010	0.590	0.0417
MAY 28,85	MAY 27,85	0.09	LG 0.03	<T 0.005	<T 0.015	<T 0.005	0.425	LG 0.0078
MAY 31,85	MAY 30,85	0.85	0.39	0.165	0.055	0.085	0.765	0.1259
JUN 1,85	MAY 31,85	0.60	0.15	0.105	0.045	0.070	0.520	0.0661
JUN 8,85	JUN 7,85	U 5.26	0.34	U 0.750	0.095	0.105	0.825	U 0.0000
JUN 9,85	JUN 8,85	0.55	<T 0.06	0.115	0.035	0.035	0.340	0.0135
JUN 12,85	JUN 11,85	0.18	<T 0.03	0.050	0.020	<T 0.005	0.325	LG 0.0002
JUN 13,85	JUN 12,85	*****	*****	*****	*****	*****	*****	*****
JUN 16,85	JUN 15,85	0.27	0.07	0.055	0.020	<T 0.010	0.205	0.0513
JUN 17,85	JUN 16,85	0.11	0.12	<T 0.010	0.020	<T 0.005	0.750	0.0617
JUN 18,85	JUN 17,85	0.21	0.08	0.025	<T 0.020	<T 0.005	0.435	0.0468
JUN 19,85	JUN 18,85	0.35	<T 0.03	0.085	0.035	<T 0.015	0.345	LG 0.0004
JUN 23,85	JUN 22,85	0.27	<T 0.06	0.045	0.030	<T 0.010	0.220	0.0282
JUL 2,85	JUL 1,85	*****	0.55	*****	*****	*****	0.635	UG 0.4266
JUL 6,85	JUL 5,85	0.29	0.08	0.055	0.035	<T 0.020	0.240	0.0219
JUL 7,85	JUL 6,85	0.21	0.17	0.075	0.050	0.040	0.785	0.0398
JUL 8,85	JUL 7,85	0.13	<T 0.05	0.025	0.020	<T 0.015	0.180	0.0245
JUL 9,85	JUL 8,85	0.08	<T 0.02	<T 0.010	<T 0.010	<T 0.015	0.120	0.0145
JUL 11,85	JUL 10,85	0.71	0.14	0.155	0.090	0.385	0.575	LG 0.0006
JUL 12,85	JUL 11,85	1.10	0.42	0.290	0.075	0.040	0.720	0.1445
JUL 14,85	JUL 13,85	1.26	0.32	0.270	0.110	0.075	1.200	0.0955

ONTARIO MINISTRY OF THE ENVIRONMENT
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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JUL 15,85	JUL 14,85	830 530	900 1200	1	15.7	1	62222	2	1	107	C
JUL 16,85	JUL 15,85	530 530	800 1300	1	10.5	1	62223	2	1	99	C
JUL 20,85	JUL 19,85	530 530	1830 2000	1	2.2	1	62224	2	1	66	H
JUL 26,85	JUL 25,85	530 800	100 500	1	2.2	1	62226	2	1	82	
JUL 31,85	JUL 30,85	530 530	**** 500	1	2.3	1	62227	2	1	94	JM
AUG 1,85	JUL 31,85	530 530	630 1000	1	1.6	1	62228	2	1	76	
AUG 8,85	AUG 7,85	530 530	**** ****	1	3.8	1	62229	2	1	78	
AUG 15,85	AUG 10,85	630 1530	**** ****	1	15.9	1	62230	2	1	94	Z
AUG 19,85	AUG 18,85	530 530	1500 1700	1	19.5	1	62231	2	1	49	N
AUG 24,85	AUG 23,85	530 830	230 815	1	24.8	1	62232	2	1	101	
AUG 25,85	AUG 24,85	830 830	330 700	1	6.9	1	62233	2	1	92	
AUG 26,85	AUG 25,85	830 530	200 530	1	12.7	1	62234	2	1	89	
AUG 27,85	AUG 26,85	530 530	530 800	1	22.2	1	62235	2	1	99	
AUG 30,85	AUG 29,85	530 530	1500 1600	1	38.4	1	62236	2	1	103	
AUG 31,85	AUG 30,85	530 830	530 700	1	4.4	1	62237	2	1	81	H
SEP 2,85	SEP 1,85	830 830	**** 430	1	4.0	1	62238	2	1	81	
SEP 5,85	SEP 4,85	530 530	300 500	1	12.4	1	62239	2	1	99	A
SEP 6,85	SEP 5,85	530 530	930 1100	1	16.6	1	62242	2	1	89	
SEP 8,85	SEP 7,85	830 830	100 700	1	3.4	1	62243	2	1	76	A
SEP 9,85	SEP 8,85	830 530	900 ****	1	1.7	1	62244	2	1	63	
SEP 10,85	SEP 9,85	530 530	**** 500	1	20.0	1	62245	2	1	103	C
SEP 19,85	SEP 18,85	530 530	1610 1620	1	1.1	1	62248	2	1	****	E
SEP 24,85	SEP 23,85	530 530	**** 430	1	11.0	1	62249	2	1	95	
SEP 27,85	SEP 26,85	530 530	630 1200	1	4.6	1	62250	2	1	92	
OCT 1,85	SEP 30,85	530 530	1800 2300	1	5.2	1	62251	2	1	77	
OCT 5,85	OCT 4,85	530 830	**** ****	1	8.4	1	62252	2	1	95	
OCT 6,85	OCT 5,85	830 700	1230 400	1	7.0	1	62253	2	1	89	C
OCT 9,85	OCT 8,85	530 530	**** 530	1	3.5	1	62254	2	1	86	
OCT 10,85	OCT 9,85	530 530	530 700	1	3.1	1	62255	2	1	89	
OCT 11,85	OCT 10,85	530 530	**** ****	1	3.0	1	62256	2	1	88	
OCT 13,85	OCT 12,85	830 1150	1330 1900	1	14.9	1	62257	2	1	60	
OCT 15,85	OCT 14,85	630 530	300 530	1	1.8	1	62258	2	1	78	
OCT 16,85	OCT 15,85	530 530	**** 500	1	5.2	1	62259	2	1	87	
OCT 19,85	OCT 18,85	530 830	1530 830	1	27.2	1	62260	2	1	103	
OCT 20,85	OCT 19,85	830 1130	830 900	1	0.2	1	62261	2	1	****	E
OCT 24,85	OCT 23,85	530 530	430 530	1	0.7	1	62262	2	1	****	E
OCT 25,85	OCT 24,85	530 530	530 1000	1	2.2	1	62263	2	1	101	
NOV 3,85	NOV 2,85	830 1200	1200 1200	1	12.4	1	62265	2	1	89	G
NOV 4,85	NOV 3,85	1200 530	1200 400	1	17.5	1	62268	2	1	93	
NOV 5,85	NOV 4,85	530 530	700 1000	1	12.8	1	62269	2	1	89	C

ONTARIO MINISTRY OF THE ENVIRONMENT
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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUL 15,85	JUL 14,85	1077.0	18.2	*****	4.63	*****	0.0455	2.10	0.15
JUL 16,85	JUL 15,85	670.0	23.4	*****	4.51	*****	0.0549	2.55	0.48
JUL 20,85	JUL 19,85	94.0	60.1	4.12	4.29	*****	0.0899	9.60	D 1.42
JUL 26,85	JUL 25,85	117.0	14.0	*****	4.78	*****	0.0380	1.80	0.36
JUL 31,85	JUL 30,85	139.0	7.2	UG 6.05	UG 6.77	*****	LG 0.0185	LG 0.90	0.26
AUG 1,85	JUL 31,85	78.0	16.1	*****	UG 6.68	*****	LG 0.0191	3.15	0.33
AUG 8,85	AUG 7,85	192.0	44.4	*****	4.15	*****	0.1060	4.65	0.74
AUG 15,85	AUG 10,85	967.0	38.8	4.21	4.21	*****	0.0956	3.65	0.56
AUG 19,85	AUG 18,85	615.0	48.4	4.04	4.07	*****	0.1200	4.80	0.45
AUG 24,85	AUG 23,85	1614.0	21.8	D 4.44	D 4.42	*****	0.0598	1.85	0.27
AUG 25,85	AUG 24,85	407.0	71.5	3.88	3.85	*****	0.1850	5.05	1.28
AUG 26,85	AUG 25,85	728.0	34.7	4.20	4.18	*****	0.0939	2.90	0.46
AUG 27,85	AUG 26,85	1423.0	38.0	4.14	4.15	*****	0.1060	3.35	0.37
AUG 30,85	AUG 29,85	2555.0	72.9	3.88	3.90	*****	0.1820	8.10	0.75
AUG 31,85	AUG 30,85	230.0	7.0	*****	UG 5.34	*****	0.0237	1.25	0.14
SEP 2,85	SEP 1,85	208.0	69.5	*****	3.93	*****	0.1730	6.80	1.01
SEP 5,85	SEP 4,85	794.0	25.4	4.42	4.42	*****	0.0670	2.70	0.34
SEP 6,85	SEP 5,85	951.0	14.2	4.67	D 4.67	*****	0.0434	1.55	LG 0.13
SEP 8,85	SEP 7,85	166.0	24.6	4.51	4.64	*****	0.0499	2.55	0.81
SEP 9,85	SEP 8,85	69.0	19.8	*****	4.65	*****	0.0482	2.10	0.47
SEP 10,85	SEP 9,85	1332.0	21.1	4.45	4.48	*****	0.0589	1.70	0.35
SEP 19,85	SEP 18,85	*****	*****	*****	*****	*****	*****	*****	*****
SEP 24,85	SEP 23,85	675.0	26.3	4.31	4.34	*****	0.0674	2.50	0.47
SEP 27,85	SEP 26,85	273.0	54.8	3.99	4.03	*****	0.1300	5.15	0.71
OCT 1,85	SEP 30,85	259.0	43.4	D 4.15	4.23	*****	0.0871	4.20	0.76
OCT 5,85	OCT 4,85	512.0	50.0	4.06	4.14	*****	0.1050	4.60	0.84
OCT 6,85	OCT 5,85	400.0	13.7	4.80	5.00	*****	0.0299	1.75	LG 0.13
OCT 9,85	OCT 8,85	194.0	D 61.5	*****	4.06	*****	0.1310	D 9.30	1.10
OCT 10,85	OCT 9,85	177.0	26.0	*****	4.36	*****	0.0692	3.05	0.39
OCT 11,85	OCT 10,85	170.0	19.7	*****	4.44	*****	0.0624	2.60	0.50
OCT 13,85	OCT 12,85	575.0	33.9	4.18	4.20	*****	0.0899	3.85	0.42
OCT 15,85	OCT 14,85	91.0	27.6	*****	4.26	*****	0.0776	2.50	0.37
OCT 16,85	OCT 15,85	291.0	*****	4.31	*****	*****	*****	*****	*****
OCT 19,85	OCT 18,85	1796.0	20.0	4.33	4.43	*****	0.0577	1.75	0.28
OCT 20,85	OCT 19,85	*****	*****	*****	*****	*****	*****	*****	*****
OCT 24,85	OCT 23,85	*****	*****	*****	*****	*****	*****	*****	*****
OCT 25,85	OCT 24,85	143.0	35.9	4.19	4.24	*****	0.0848	2.90	0.63
NOV 3,85	NOV 2,85	713.0	25.1	*****	4.36	*****	0.0675	2.35	0.46
NOV 4,85	NOV 3,85	1047.0	17.3	*****	4.49	*****	0.0528	1.15	0.32
NOV 5,85	NOV 4,85	734.0	11.0	*****	UG 5.13	*****	0.0233	LG 0.50	LG 0.08

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ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUL 15,85	JUL 14,85	0.11	<T 0.03	0.020	0.025	<T 0.015	0.420	0.0234
JUL 16,85	JUL 15,85	0.26	0.11	0.045	0.045	0.030	0.625	0.0309
JUL 20,85	JUL 19,85	B 2.91	0.35	D 0.475	0.210	0.085	1.350	0.0513
JUL 26,85	JUL 25,85	0.33	<T 0.04	0.075	<T 0.015	0.025	D 0.320	0.0166
JUL 31,85	JUL 30,85	0.41	<T 0.06	0.070	0.025	0.025	0.360	LG 0.0002
AUG 1,85	JUL 31,85	0.44	0.10	0.075	0.045	0.050	1.200	LG 0.0002
AUG 8,85	AUG 7,85	0.54	0.15	0.115	0.040	0.025	0.425	0.0708
AUG 15,85	AUG 10,85	0.29	0.11	0.055	0.020	<T 0.010	0.325	0.0617
AUG 19,85	AUG 18,85	0.14	0.08	0.025	0.065	<T 0.015	0.320	0.0851
AUG 24,85	AUG 23,85	0.13	<T 0.05	0.035	<T 0.005	<T 0.005	LG 0.100	D 0.0380
AUG 25,85	AUG 24,85	D 0.16	0.24	D 0.030	0.030	0.020	0.395	0.1413
AUG 26,85	AUG 25,85	<T 0.01	0.07	<T 0.005	<T 0.015	0.025	0.195	0.0661
AUG 27,85	AUG 26,85	<W 0.01	0.07	<T 0.005	<W 0.005	<T 0.010	0.130	0.0708
AUG 30,85	AUG 29,85	0.29	0.18	0.055	<T 0.015	<T 0.015	0.670	0.1259
AUG 31,85	AUG 30,85	<T 0.03	<T 0.04	<T 0.005	<T 0.010	<T 0.010	0.360	LG 0.0046
SEP 2,85	SEP 1,85	0.41	0.20	0.070	0.060	0.045	0.625	0.1175
SEP 5,85	SEP 4,85	0.15	0.09	0.035	0.135	0.075	0.305	0.0380
SEP 6,85	SEP 5,85	0.08	<T 0.04	0.020	<T 0.010	0.030	0.125	D 0.0214
SEP 8,85	SEP 7,85	0.40	0.12	0.075	0.050	0.085	0.710	0.0229
SEP 9,85	SEP 8,85	0.21	0.10	0.035	0.035	0.050	0.520	0.0224
SEP 10,85	SEP 9,85	0.07	<T 0.05	<T 0.010	<T 0.010	<W 0.005	0.190	0.0331
SEP 19,85	SEP 18,85	*****	*****	*****	*****	*****	*****	*****
SEP 24,85	SEP 23,85	0.26	0.09	0.040	0.025	0.030	0.270	0.0457
SEP 27,85	SEP 26,85	0.41	0.24	0.060	0.045	0.050	0.435	0.0933
OCT 1,85	SEP 30,85	0.46	0.24	0.090	0.045	0.095	0.575	0.0589
OCT 5,85	OCT 4,85	0.47	0.17	0.080	0.055	0.025	0.635	0.0724
OCT 6,85	OCT 5,85	0.13	<T 0.05	0.020	0.030	<T 0.005	0.350	0.0100
OCT 9,85	OCT 8,85	1.84	0.28	0.295	0.130	0.075	0.705	0.0871
OCT 10,85	OCT 9,85	0.27	0.08	0.055	0.040	0.035	0.245	0.0437
OCT 11,85	OCT 10,85	0.14	0.16	0.050	0.030	0.090	0.435	0.0363
OCT 13,85	OCT 12,85	0.09	0.17	0.050	0.040	0.115	0.380	0.0631
OCT 15,85	OCT 14,85	<W 0.01	0.10	0.020	0.035	0.050	0.155	0.0550
OCT 16,85	OCT 15,85	*****	*****	*****	*****	*****	*****	*****
OCT 19,85	OCT 18,85	<W 0.01	<T 0.05	0.020	<T 0.015	<T 0.005	0.130	0.0372
OCT 20,85	OCT 19,85	*****	*****	*****	*****	*****	*****	*****
OCT 24,85	OCT 23,85	*****	*****	*****	*****	*****	*****	*****
OCT 25,85	OCT 24,85	0.20	0.11	0.030	0.025	0.030	0.500	0.0575
NOV 3,85	NOV 2,85	0.25	0.11	0.060	<T 0.010	0.040	0.285	0.0437
NOV 4,85	NOV 3,85	0.05	<T 0.05	<T 0.010	<W 0.005	<T 0.005	0.145	0.0324
NOV 5,85	NOV 4,85	<T 0.01	<T 0.04	<W 0.050	<W 0.005	0.025	0.075	LG 0.0074

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COM ^o /04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
NOV 6,85	NOV 5,85	530 530	**** 400	1	1.4	1	62270	2	1	28	N
NOV 8,85	NOV 7,85	530 530	900 1300	1	4.3	1	62271	2	1	67	
NOV 9,85	NOV 8,85	530 1100	**** 1100	1	6.2	1	62272	2	1	80	
NOV 10,85	NOV 9,85	1100 1130	1100 1500	1	20.8	1	62273	2	1	96	
NOV 13,85	NOV 12,85	530 530	2200 300	1	13.9	1	62274	2	1	44	N
NOV 14,85	NOV 13,85	530 530	500 530	1	1.2	1	62275	2	1	23	G
NOV 15,85	NOV 14,85	530 530	530 900	1	12.8	1	62276	2	1	95	
NOV 17,85	NOV 16,85	830 830	900 1100	1	7.8	1	62277	2	1	104	
NOV 19,85	NOV 18,85	530 530	1530 1730	1	****	1	62278	2	1	****	A
NOV 20,85	NOV 19,85	530 530	645 1000	1	3.2	1	62279	2	1	138	N
NOV 23,85	NOV 22,85	530 830	1000 1400	2	8.5	2	62280	2	1	3	M
NOV 26,85	NOV 25,85	530 530	**** 530	3	5.5	2	62281	2	1	28	M
NOV 27,85	NOV 26,85	530 530	530 1100	3	5.8	2	62282	2	1	77	N
NOV 29,85	NOV 28,85	530 530	**** ****	2	3.0	2	62283	2	1	****	EK
DEC 1,85	NOV 30,85	530 1130	**** 1130	1	1.5	2	62284	2	1	40	N
DEC 2,85	DEC 1,85	1130 530	1130 400	3	12.5	2	62285	2	1	55	
DEC 3,85	DEC 2,85	530 530	1000 1700	2	5.1	2	62286	2	1	125	N
DEC 6,85	DEC 5,85	530 530	1700 2400	3	3.0	2	62287	2	1	49	NH
DEC 8,85	DEC 7,85	830 1100	300 1100	3	1.0	2	62288	2	1	24	N
DEC 10,85	DEC 9,85	530 530	2000 2200	3	1.7	2	62289	2	1	82	
DEC 11,85	DEC 10,85	530 530	**** ****	2	4.0	2	62290	2	1	74	
DEC 12,85	DEC 11,85	530 530	1800 200	2	4.3	2	62291	2	1	1	EFM
DEC 14,85	DEC 13,85	530 830	1600 ****	2	4.0	2	62292	2	1	19	FM
DEC 16,85	DEC 15,85	530 530	1200 1600	2	2.9	2	62293	2	1	****	EM
DEC 17,85	DEC 16,85	530 530	**** ****	2	3.4	2	62294	2	1	****	EM
DEC 18,85	DEC 17,85	530 530	**** 530	2	2.2	2	62295	2	1	26	M
DEC 19,85	DEC 18,85	530 530	530 1000	2	1.4	2	62296	2	1	26	M
DEC 20,85	DEC 19,85	530 530	530 700	2	0.7	2	62297	2	1	22	E
DEC 21,85	DEC 20,85	530 830	2200 830	2	3.3	2	62298	2	1	57	D
DEC 22,85	DEC 21,85	830 1130	830 1300	2	4.5	2	62299	2	1	31	M
DEC 23,85	DEC 22,85	1130 530	1130 ****	2	1.7	2	62300	2	1	33	M
DEC 24,85	DEC 23,85	530 530	2200 400	2	3.7	2	62301	2	1	51	N
DEC 25,85	DEC 24,85	530 530	**** 530	2	1.1	2	62302	2	1	25	N
DEC 26,85	DEC 25,85	530 830	530 830	2	1.3	2	62303	2	1	41	N
DEC 27,85	DEC 26,85	830 530	**** 530	2	8.1	2	62304	2	1	19	M
DEC 28,85	DEC 27,85	530 830	830 1600	2	5.2	2	62305	2	1	42	N
DEC 29,85	DEC 28,85	830 1100	1900 2400	2	1.2	2	62306	2	1	18	E
DEC 30,85	DEC 29,85	1100 830	1200 1500	2	2.0	2	62307	2	1	35	N
DEC 31,85	DEC 30,85	830 530	**** ****	2	1.3	2	62308	2	1	****	EM
JAN 1,86	DEC 31,85	830 830	**** ****	2	0.7	2	62309	2	1	44	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM

#04

PAGE : 11

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 6,85	NOV 5,85	26.0	*****	*****	UG 6.21	*****	LG 0.0178	*****	*****
NOV 8,85	NOV 7,85	187.0	33.2	*****	4.26	*****	0.0814	*****	0.72
NOV 9,85	NOV 8,85	320.0	34.8	4.20	4.20	*****	0.0889	1.80	1.09
NOV 10,85	NOV 9,85	1281.0	22.6	4.36	4.37	*****	0.0640	1.45	0.44
NOV 13,85	NOV 12,85	394.0	28.4	*****	D 4.32	*****	0.0739	2.60	0.27
NOV 14,85	NOV 13,85	18.0	*****	*****	4.59	*****	0.0550	*****	*****
NOV 15,85	NOV 14,85	785.0	21.8	*****	4.41	*****	0.0675	1.75	0.23
NOV 17,85	NOV 16,85	523.0	14.3	*****	4.67	*****	0.0440	1.35	LG 0.10
NOV 19,85	NOV 18,85	453.0	23.6	*****	4.38	*****	0.0686	2.15	0.17
NOV 20,85	NOV 19,85	285.0	21.5	4.49	4.50	*****	0.0599	2.15	0.30
NOV 23,85	NOV 22,85	18.0	*****	*****	4.15	*****	0.1160	*****	*****
NOV 26,85	NOV 25,85	102.0	25.4	4.31	4.37	*****	0.0725	2.60	0.24
NOV 27,85	NOV 26,85	287.0	34.4	*****	4.17	*****	0.0906	2.95	0.42
NOV 29,85	NOV 28,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 1,85	NOV 30,85	39.0	> 100.0	*****	LG 3.46	*****	UG 0.4260	UG 13.50	UG 4.20
DEC 2,85	DEC 1,85	444.0	18.6	*****	4.50	*****	0.0522	1.30	0.33
DEC 3,85	DEC 2,85	410.0	18.4	4.48	4.48	*****	0.0518	1.30	0.32
DEC 6,85	DEC 5,85	95.0	27.0	*****	4.84	*****	0.0421	3.30	0.88
DEC 8,85	DEC 7,85	16.0	*****	*****	LG 3.17	*****	UG 0.7560	*****	*****
DEC 10,85	DEC 9,85	90.0	> 100.0	*****	LG 3.26	*****	UG 0.6050	*****	*****
DEC 11,85	DEC 10,85	191.0	UG 88.7	3.81	LG 3.73	*****	UG 0.2070	5.95	2.14
DEC 12,85	DEC 11,85	4.0	*****	*****	*****	*****	*****	*****	*****
DEC 14,85	DEC 13,85	51.0	13.0	*****	4.69	*****	0.0367	LG 0.55	0.38
DEC 16,85	DEC 15,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 17,85	DEC 16,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 18,85	DEC 17,85	38.0	26.0	*****	4.64	*****	0.0490	1.10	1.14
DEC 19,85	DEC 18,85	24.0	*****	*****	UG 6.89	*****	LG 0.0185	*****	*****
DEC 20,85	DEC 19,85	10.0	*****	*****	*****	*****	*****	*****	*****
DEC 21,85	DEC 20,85	122.0	17.7	*****	4.48	*****	0.0579	LG 0.40	0.68
DEC 22,85	DEC 21,85	92.0	9.3	*****	5.00	*****	0.0314	0.70	0.22
DEC 23,85	DEC 22,85	36.0	54.1	*****	4.00	*****	0.1380	4.50	1.17
DEC 24,85	DEC 23,85	123.0	24.0	*****	4.36	*****	0.0688	1.65	0.56
DEC 25,85	DEC 24,85	18.0	*****	*****	B 6.11	*****	0.0229	*****	*****
DEC 26,85	DEC 25,85	35.0	12.4	*****	5.02	*****	0.0309	LG 0.50	0.42
DEC 27,85	DEC 26,85	102.0	15.1	*****	4.53	*****	0.0507	LG 0.30	0.46
DEC 28,85	DEC 27,85	141.0	22.7	*****	4.42	*****	0.0628	1.00	0.72
DEC 29,85	DEC 28,85	14.0	*****	*****	*****	*****	*****	*****	*****
DEC 30,85	DEC 29,85	45.0	33.6	*****	4.34	*****	0.0763	1.55	1.18
DEC 31,85	DEC 30,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 1,86	DEC 31,85	20.0	*****	*****	3.85	*****	UG 0.2040	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY/AEROCHEM		#04		PAGE : 12					
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L	
NOV 6,85	NOV 5,85	*****	*****	*****	*****	*****	*****	LG 0.0006	
NOV 8,85	NOV 7,85	0.34	0.18	0.045	0.025	0.035	0.650	0.0550	
NOV 9,85	NOV 8,85	0.45	0.21	0.070	0.025	0.030	0.320	0.0631	
NOV 10,85	NOV 9,85	0.08	0.13	<T 0.015	<T 0.005	<T 0.015	0.215	0.0427	
NOV 13,85	NOV 12,85	*****	0.12	*****	*****	*****	*****	D 0.0479	
NOV 14,85	NOV 13,85	*****	*****	*****	*****	*****	*****	0.0257	
NOV 15,85	NOV 14,85	0.06	<T 0.05	<T 0.015	<T 0.010	0.025	0.085	0.0389	
NOV 17,85	NOV 16,85	0.13	<T 0.05	0.030	<T 0.005	0.020	LG 0.040	0.0214	
NOV 19,85	NOV 18,85	0.14	0.12	0.040	<T 0.010	0.025	0.080	0.0417	
NOV 20,85	NOV 19,85	D 0.17	0.15	0.040	0.030	0.110	0.265	0.0316	
NOV 23,85	NOV 22,85	*****	*****	*****	*****	*****	*****	0.0708	
NOV 26,85	NOV 25,85	0.20	0.17	0.040	0.040	0.055	0.115	0.0427	
NOV 27,85	NOV 26,85	0.40	0.12	0.045	<T 0.010	0.065	0.200	0.0676	
NOV 29,85	NOV 28,85	*****	*****	*****	*****	*****	*****	*****	
DEC 1,85	NOV 30,85	*****	UG 2.06	*****	*****	*****	UG 2.500	UG 0.3467	
DEC 2,85	DEC 1,85	0.10	<T 0.04	<T 0.010	<T 0.005	<T 0.015	0.190	0.0316	
DEC 3,85	DEC 2,85	0.11	<T 0.04	<T 0.005	<W 0.005	0.025	0.185	0.0331	
DEC 6,85	DEC 5,85	UG 1.52	0.92	UG 0.410	0.040	0.315	D 0.425	0.0145	
DEC 8,85	DEC 7,85	*****	*****	*****	*****	*****	*****	UG 0.6761	
DEC 10,85	DEC 9,85	*****	UG 1.22	*****	*****	*****	*****	UG 0.5495	
DEC 11,85	DEC 10,85	0.35	0.57	0.055	0.030	0.045	1.250	UG 0.1862	
DEC 12,85	DEC 11,85	*****	*****	*****	*****	*****	*****	*****	
DEC 14,85	DEC 13,85	0.06	0.18	<T 0.010	<T 0.005	0.110	0.190	0.0204	
DEC 16,85	DEC 15,85	*****	*****	*****	*****	*****	*****	*****	
DEC 17,85	DEC 16,85	*****	*****	*****	*****	*****	*****	*****	
DEC 18,85	DEC 17,85	*****	UG 1.29	*****	*****	*****	*****	0.0229	
DEC 19,85	DEC 18,85	*****	*****	*****	*****	*****	*****	LG 0.0001	
DEC 20,85	DEC 19,85	*****	*****	*****	*****	*****	*****	*****	
DEC 21,85	DEC 20,85	0.25	0.34	0.045	<T 0.005	0.130	0.255	0.0331	
DEC 22,85	DEC 21,85	0.12	0.12	0.030	<T 0.005	0.080	0.190	0.0100	
DEC 23,85	DEC 22,85	0.26	0.44	0.035	0.060	0.120	*****	0.1000	
DEC 24,85	DEC 23,85	0.04	0.09	<T 0.010	<W 0.005	0.040	0.370	0.0437	
DEC 25,85	DEC 24,85	*****	*****	*****	*****	*****	*****	B 0.0008	
DEC 26,85	DEC 25,85	*****	0.51	*****	*****	*****	*****	0.0095	
DEC 27,85	DEC 26,85	0.18	0.12	0.015	<W 0.005	0.060	0.070	0.0295	
DEC 28,85	DEC 27,85	0.24	0.41	0.040	<T 0.015	0.240	0.310	0.0380	
DEC 29,85	DEC 28,85	*****	*****	*****	*****	*****	*****	*****	
DEC 30,85	DEC 29,85	*****	1.08	*****	*****	*****	0.395	0.0457	
DEC 31,85	DEC 30,85	*****	*****	*****	*****	*****	*****	*****	
JAN 1,86	DEC 31,85	*****	*****	*****	*****	*****	*****	0.1413	

PART IV

CENTRAL REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM

#06

PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JAN 7,85	JAN 6,85	815 750	815 1900	2	6.1	2	42030	2	1	58	
JAN 8,85	JAN 7,85	750 755	1100 2030	2	5.4	2	42031	2	1	58	
JAN 13,85	JAN 12,85	700 1015	700 2000	2	1.3	2	42032	2	1	115	
JAN 15,85	JAN 14,85	755 755	1400 2200	2	1.4	2	42033	2	1	111	
JAN 17,85	JAN 16,85	755 755	400 755	2	1.2	2	42034	2	1	206	N
JAN 18,85	JAN 17,85	755 755	400 700	2	2.1	2	42035	2	1	124	N
JAN 21,85	JAN 20,85	755 755	2200 730	2	13.1	2	42036	2	1	60	
JAN 22,85	JAN 21,85	755 755	200 500	2	2.1	2	42037	2	1	57	HM
JAN 23,85	JAN 22,85	755 715	****	2	1.2	2	42038	2	1	79	
JAN 24,85	JAN 23,85	715 750	715 300	2	6.2	2	42039	2	1	64	
JAN 25,85	JAN 24,85	750 750	1500 700	2	1.3	2	42040	2	1	208	N
JAN 28,85	JAN 27,85	750 750	900 2300	2	2.2	2	42041	2	1	73	
FEB 1,85	JAN 31,85	755 755	900 1500	2	3.1	2	42042	2	1	84	
FEB 4,85	FEB 3,85	755 755	100 200	2	0.2	2	42043	2	1	234	N
FEB 7,85	FEB 4,85	755 750	400 600	2	3.1	2	42044	2	1	75	Z
FEB 12,85	FEB 11,85	750 750	1700 750	2	1.2	2	42045	2	1	105	
FEB 13,85	FEB 12,85	750 755	750 600	3	16.3	2	42046	2	1	99	
FEB 14,85	FEB 13,85	755 750	1015 700	3	5.3	2	42049	2	1	64	
FEB 15,85	FEB 14,85	750 755	1030 600	2	2.0	2	42050	2	1	46	N
FEB 17,85	FEB 16,85	800 1030	2300 1030	2	7.4	2	42051	2	1	73	
FEB 18,85	FEB 17,85	1030 755	1030 600	2	4.0	2	42052	2	1	33	N
FEB 19,85	FEB 18,85	755 755	1245 755	2	1.2	2	42053	2	1	93	
FEB 20,85	FEB 19,85	755 750	755 750	2	1.1	2	42054	2	1	79	
FEB 22,85	FEB 21,85	800 750	2300 600	1	10.1	2	42055	2	1	189	N
FEB 23,85	FEB 22,85	750 910	1330 910	1	5.1	2	42056	2	1	101	
FEB 24,85	FEB 23,85	910 1005	910 700	1	35.4	2	42057	2	1	101	
FEB 25,85	FEB 24,85	1005 750	1045 1900	1	****	2	42060	2	1	****	N
FEB 27,85	FEB 26,85	755 755	2300 400	2	7.1	2	42061	2	1	89	
MAR 2,85	MAR 1,85	1015 1015	1400 1600	1	****	2	42062	2	1	****	N
MAR 5,85	MAR 4,85	750 750	805 600	2	32.2	2	42063	2	1	31	N
MAR 6,85	MAR 5,85	750 755	900 1700	2	0.3	2	42065	2	1	161	N
MAR 8,85	MAR 7,85	755 755	2215 700	3	1.4	2	42066	2	1	160	N
MAR 12,85	MAR 11,85	750 750	1700 600	1	17.2	2	42067	2	1	93	
MAR 13,85	MAR 12,85	750 750	1000 1700	1	0.1	2	42070	2	1	826	N
MAR 14,85	MAR 13,85	750 750	400 745	2	0.2	2	42071	2	1	202	N
MAR 15,85	MAR 14,85	750 750	2300 100	2	0.1	2	42072	2	1	140	N
MAR 17,85	MAR 16,85	800 1100	2300 900	2	1.2	2	42073	2	1	115	E
MAR 28,85	MAR 27,85	800 755	1600 700	1	11.3	2	42075	2	1	86	H
MAR 29,85	MAR 28,85	755 750	930 600	1	11.4	2	42076	2	1	123	N
APR 1,85	MAR 31,85	800 750	1030 730	2	21.0	2	42077	2	1	28	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM

#06

PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 7,85	JAN 6,85	230.0	18.7	4.47	4.53	0.0536	0.0530	1.45	0.39
JAN 8,85	JAN 7,85	204.0	25.0	4.26	4.26	0.0716	0.0709	0.70	0.70
JAN 13,85	JAN 12,85	96.0	13.1	*****	4.79	0.0370	0.0366	1.25	0.23
JAN 15,85	JAN 14,85	100.0	27.1	*****	4.42	0.0614	0.0618	1.20	0.86
JAN 17,85	JAN 16,85	159.0	18.9	4.43	4.48	0.0542	0.0530	0.25	0.58
JAN 18,85	JAN 17,85	168.0	20.4	4.35	4.40	*****	0.0594	0.50	0.56
JAN 21,85	JAN 20,85	511.0	25.7	4.25	4.32	*****	0.0724	0.45	0.73
JAN 22,85	JAN 21,85	78.0	5.2	*****	5.26	*****	0.0230	0.45	0.07
JAN 23,85	JAN 22,85	61.0	14.4	*****	4.62	*****	0.0450	1.20	0.21
JAN 24,85	JAN 23,85	257.0	11.2	4.65	4.70	*****	0.0375	0.60	0.24
JAN 25,85	JAN 24,85	174.0	33.5	4.16	4.17	*****	0.0858	1.00	1.00
JAN 28,85	JAN 27,85	104.0	46.0	*****	3.98	*****	0.1200	1.00	1.33
FEB 1,85	JAN 31,85	168.0	39.9	4.07	4.05	*****	0.1070	0.70	1.08
FEB 4,85	FEB 3,85	30.0	*****	*****	4.04	0.1108	0.1090	*****	*****
FEB 7,85	FEB 4,85	151.0	19.5	4.33	4.42	*****	0.0601	0.45	0.58
FEB 12,85	FEB 11,85	81.0	22.9	*****	4.32	*****	0.0731	0.80	0.69
FEB 13,85	FEB 12,85	1035.0	9.9	4.64	4.73	*****	0.0389	0.65	0.11
FEB 14,85	FEB 13,85	219.0	42.1	4.07	4.02	*****	0.1130	1.95	0.97
FEB 15,85	FEB 14,85	60.0	8.9	*****	4.86	*****	LG 0.0163	0.35	0.24
FEB 17,85	FEB 16,85	349.0	33.9	4.16	4.16	*****	0.0867	1.05	0.98
FEB 18,85	FEB 17,85	87.0	20.4	*****	4.43	*****	0.0554	1.05	0.54
FEB 19,85	FEB 18,85	72.0	40.8	*****	4.07	*****	0.1020	0.85	1.25
FEB 20,85	FEB 19,85	56.0	25.2	*****	4.41	*****	0.0586	4.10	0.28
FEB 22,85	FEB 21,85	1228.0	36.7	4.10	4.10	*****	0.0996	2.45	0.64
FEB 23,85	FEB 22,85	332.0	24.8	4.27	4.33	*****	0.0725	1.65	0.41
FEB 24,85	FEB 23,85	2312.0	21.8	4.30	4.33	*****	0.0641	1.25	0.33
FEB 25,85	FEB 24,85	74.0	34.1	*****	4.16	*****	0.0907	2.75	0.66
FEB 27,85	FEB 26,85	409.0	39.1	4.20	4.20	*****	0.0889	2.85	1.14
MAR 2,85	MAR 1,85	178.0	90.0	3.83	3.82	*****	0.1840	8.25	2.22
MAR 5,85	MAR 4,85	659.0	19.4	4.39	4.40	*****	0.0606	1.40	0.31
MAR 6,85	MAR 5,85	31.0	*****	*****	4.25	*****	0.0778	*****	*****
MAR 8,85	MAR 7,85	144.0	> 100.0	LG 3.69	3.72	*****	UG 0.2480	8.50	UG 3.70
MAR 12,85	MAR 11,85	1032.0	25.3	4.27	4.33	*****	0.0743	2.00	0.45
MAR 13,85	MAR 12,85	53.0	23.7	*****	4.41	*****	*****	1.95	0.43
MAR 14,85	MAR 13,85	26.0	*****	*****	4.19	*****	0.1030	*****	*****
MAR 15,85	MAR 14,85	9.0	*****	*****	*****	*****	*****	*****	*****
MAR 17,85	MAR 16,85	89.0	38.9	*****	4.77	*****	0.0516	3.85	2.12
MAR 28,85	MAR 27,85	623.0	24.3	*****	4.49	*****	0.0659	2.70	0.34
MAR 29,85	MAR 28,85	901.0	*****	*****	*****	*****	*****	*****	*****
APR 1,85	MAR 31,85	382.0	*****	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 7,85	JAN 6,85	0.14	0.17	<T 0.010	<T 0.015	0.090	0.205	0.0295
JAN 8,85	JAN 7,85	0.06	0.15	<T 0.010	<W 0.005	0.025	0.060	0.0550
JAN 13,85	JAN 12,85	0.31	0.19	0.020	0.025	0.120	0.080	0.0162
JAN 15,85	JAN 14,85	0.96	0.40	0.115	*****	0.155	0.265	0.0380
JAN 17,85	JAN 16,85	0.19	0.42	0.030	<T 0.020	0.200	0.030	0.0331
JAN 18,85	JAN 17,85	0.06	0.13	<T 0.010	<T 0.010	0.025	0.045	0.0398
JAN 21,85	JAN 20,85	0.07	0.17	<T 0.010	<T 0.005	0.040	0.040	0.0479
JAN 22,85	JAN 21,85	0.24	0.15	0.035	<T 0.010	0.080	LG 0.010	LG 0.0055
JAN 23,85	JAN 22,85	*****	0.13	*****	*****	*****	0.060	0.0240
JAN 24,85	JAN 23,85	0.07	0.05	<T 0.010	<T 0.010	0.030	0.080	0.0200
JAN 25,85	JAN 24,85	0.12	0.38	<T 0.010	0.070	0.230	0.270	0.0676
JAN 28,85	JAN 27,85	0.20	0.43	0.020	0.020	0.130	0.090	0.1047
FEB 1,85	JAN 31,85	0.12	0.36	<T 0.005	<T 0.005	0.040	0.040	0.0891
FEB 4,85	FEB 3,85	*****	*****	*****	*****	*****	*****	0.0912
FEB 7,85	FEB 4,85	0.12	0.43	0.020	<T 0.010	0.245	0.020	0.0380
FEB 12,85	FEB 11,85	0.11	0.19	<T 0.015	0.030	0.160	0.060	0.0479
FEB 13,85	FEB 12,85	0.06	0.09	<T 0.005	<T 0.010	0.040	<T 0.005	0.0186
FEB 14,85	FEB 13,85	0.05	0.15	<T 0.005	0.040	0.055	0.210	0.0955
FEB 15,85	FEB 14,85	*****	0.12	*****	*****	*****	0.025	0.0138
FEB 17,85	FEB 16,85	0.21	0.33	0.030	0.110	0.135	0.165	0.0692
FEB 18,85	FEB 17,85	0.26	0.24	0.050	0.045	0.135	0.115	0.0372
FEB 19,85	FEB 18,85	*****	0.56	*****	*****	*****	0.040	0.0851
FEB 20,85	FEB 19,85	*****	0.39	*****	*****	*****	0.095	D 0.0389
FEB 22,85	FEB 21,85	UG 0.11	0.17	0.020	0.025	0.085	0.250	D 0.0794
FEB 23,85	FEB 22,85	0.08	0.07	<W 0.005	0.015	0.050	0.140	0.0468
FEB 24,85	FEB 23,85	<W 0.01	0.11	<W 0.005	<T 0.005	0.030	0.120	0.0468
FEB 25,85	FEB 24,85	*****	0.21	*****	*****	*****	0.315	0.0692
FEB 27,85	FEB 26,85	0.33	D 0.16	0.050	0.030	0.060	0.805	0.0631
MAR 2,85	MAR 1,85	UG 1.73	0.90	UG 0.240	0.060	UG 0.580	1.180	0.1514
MAR 5,85	MAR 4,85	<T 0.04	0.08	<T 0.005	0.030	<T 0.005	0.135	0.0398
MAR 6,85	MAR 5,85	*****	*****	*****	*****	*****	*****	0.0562
MAR 8,85	MAR 7,85	UG 2.29	0.55	0.205	0.115	0.290	1.850	0.1905
MAR 12,85	MAR 11,85	0.31	0.12	0.035	0.025	0.070	0.190	0.0468
MAR 13,85	MAR 12,85	*****	0.14	*****	*****	*****	0.210	0.0389
MAR 14,85	MAR 13,85	*****	*****	*****	*****	*****	*****	0.0646
MAR 15,85	MAR 14,85	*****	*****	*****	*****	*****	*****	*****
MAR 17,85	MAR 16,85	B 2.54	0.47	B 0.440	0.075	0.190	1.150	0.0170
MAR 28,85	MAR 27,85	0.30	0.10	0.035	<T 0.005	<T 0.015	0.335	0.0324
MAR 29,85	MAR 28,85	*****	*****	*****	*****	*****	*****	*****
APR 1,85	MAR 31,85	*****	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
APR 2,85	APR 1,85	750 750	810 1700	3	3.1	2	42078	2	1	67	
APR 3,85	APR 2,85	750 750	400 750	2	2.3	2	42079	2	1	63	
APR 4,85	APR 3,85	750 750	755 1700	2	7.3	2	42080	2	1	87	000000
APR 5,85	APR 4,85	750 910	1900 600	1	19.4	2	42081	2	1	83	000000
APR 15,85	APR 14,85	750 750	400 700	1	1.3	2	42085	2	1	195	N
APR 16,85	APR 15,85	750 755	1630 600	1	2.4	2	42086	2	1	143	N
APR 18,85	APR 17,85	750 750	400 745	1	9.1	2	42087	2	1	89	
APR 19,85	APR 18,85	750 750	810 500	1	4.2	2	42088	2	1	128	000000
APR 20,85	APR 19,85	750 1030	1400 930	1	3.2	2	42089	2	1	165	N
APR 28,85	APR 27,85	800 945	500 700	1	1.1	1	42090	2	1	113	
MAY 5,85	MAY 4,85	800 1100	1700 1000	1	16.1	1	42091	2	1	U 32	GA JM
MAY 6,85	MAY 5,85	1100 755	1500 745	1	2.0	1	42092	2	1	91	C
MAY 7,85	MAY 6,85	755 800	****	1	11.0	1	42093	2	1	****	EFI
MAY 8,85	MAY 7,85	800 800	****	1	5.0	1	42094	2	1	****	EFI
MAY 21,85	MAY 20,85	750 750	1015 2000	1	17.4	1	42095	2	1	107	J
MAY 26,85	MAY 25,85	800 1015	1900 900	1	2.1	1	42098	2	1	104	JH
MAY 31,85	MAY 26,85	1015 755	500 700	1	27.0	1	42101	2	1	U 22	FI
JUN 1,85	MAY 31,85	755 810	1730 200	1	8.0	1	42102	2	1	130	C
JUN 10,85	JUN 9,85	755 755	1300 1400	1	0.2	1	42103	2	1	155	NH
JUN 16,85	JUN 15,85	900 900	200 845	1	4.0	1	42104	2	1	95	N
JUN 17,85	JUN 16,85	900 755	1000 1730	1	4.1	1	42105	2	1	117	
JUN 18,85	JUN 17,85	755 750	1900 500	1	3.4	1	42106	2	1	109	
JUN 19,85	JUN 18,85	750 750	1830 2200	1	0.4	1	42107	2	1	198	NM
JUN 21,85	JUN 20,85	800 800	1400 1800	1	1.3	1	42108	2	1	103	Q H
JUN 23,85	JUN 22,85	800 1030	1600 1800	1	2.4	1	42109	2	1	104	
JUN 24,85	JUN 23,85	1030 755	2200 2330	1	14.1	1	42110	2	1	50	C
JUL 3,85	JUL 2,85	800 750	200 300	1	1.1	1	42111	2	1	158	N
JUL 7,85	JUL 6,85	800 1000	1400 1500	1	5.2	1	42112	2	1	96	C J
JUL 14,85	JUL 13,85	800 1030	200 800	1	3.0	1	42113	2	1	167	AC N
JUL 15,85	JUL 14,85	1030 750	400 600	1	5.0	1	42114	2	1	130	C N
JUL 16,85	JUL 15,85	750 ****	****	1	****	*	42115	2	1	****	JHCM
JUL 22,85	JUL 21,85	800 755	100 300	1	7.1	1	42116	2	1	97	JH
JUL 23,85	JUL 22,85	755 750	200 300	1	1.1	1	42117	2	1	52	
JUL 26,85	JUL 25,85	750 750	500 700	1	4.2	1	42118	2	1	110	A
JUL 29,85	JUL 28,85	750 750	1130 1400	1	0.2	1	42119	2	1	132	N
AUG 1,85	JUL 31,85	750 750	1245 1400	1	1.2	1	42120	2	1	93	
AUG 7,85	AUG 6,85	755 755	1400 1500	1	0.2	1	42121	2	1	257	N
AUG 8,85	AUG 7,85	755 750	1430 2100	1	13.4	1	42122	2	1	99	
AUG 11,85	AUG 10,85	800 1000	2100 2300	1	4.3	1	42123	2	1	104	
AUG 15,85	AUG 14,85	800 755	540 700	1	4.4	1	42124	2	1	125	N

ONTARIO MINISTRY OF THE ENVIRONMENT
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STATION NAME : BALSAM LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 2,85	APR 1,85	134.0	32.6	*****	4.29	*****	0.0915	2.70	0.52
APR 3,85	APR 2,85	93.0	21.6	*****	4.47	*****	0.0628	0.60	0.70
APR 4,85	APR 3,85	409.0	18.1	*****	4.42	*****	0.0602	1.35	0.40
APR 5,85	APR 4,85	1039.0	19.6	*****	4.51	*****	0.0536	1.65	0.38
APR 15,85	APR 14,85	163.0	> 100.0	*****	LG 3.50	*****	UG 0.3810	UG 16.80	2.35
APR 16,85	APR 15,85	221.0	45.7	*****	4.21	*****	0.0942	5.00	1.00
APR 18,85	APR 17,85	525.0	47.4	*****	4.65	*****	0.0570	7.85	1.56
APR 19,85	APR 18,85	345.0	36.4	*****	4.91	*****	0.0451	7.35	0.86
APR 20,85	APR 19,85	340.0	32.0	*****	4.42	*****	0.0703	4.20	0.69
APR 28,85	APR 27,85	80.0	15.3	*****	4.76	*****	0.0412	2.15	0.21
MAY 5,85	MAY 4,85	336.0	21.9	UG 5.77	UG 7.05	*****	0.0257	1.45	0.24
MAY 6,85	MAY 5,85	117.0	> 100.0	*****	3.89	*****	0.1950	UG 13.70	UG 3.50
MAY 7,85	MAY 6,85	*****	*****	*****	*****	*****	*****	*****	*****
MAY 8,85	MAY 7,85	*****	*****	*****	*****	*****	*****	*****	*****
MAY 21,85	MAY 20,85	1197.0	29.1	4.80	5.26	*****	0.0355	5.30	0.90
MAY 26,85	MAY 25,85	140.0	D 17.5	4.38	4.79	*****	0.0455	2.75	0.34
MAY 31,85	MAY 26,85	397.0	44.5	4.10	4.16	*****	0.1050	5.15	0.74
JUN 1,85	MAY 31,85	670.0	31.8	4.52	4.86	*****	0.0467	6.10	0.77
JUN 10,85	JUN 9,85	20.0	*****	*****	4.31	*****	0.1010	*****	*****
JUN 16,85	JUN 15,85	244.0	80.2	3.78	3.87	*****	0.1920	7.85	1.08
JUN 17,85	JUN 16,85	308.0	38.5	4.08	4.22	*****	0.0966	4.25	0.40
JUN 18,85	JUN 17,85	239.0	40.2	4.07	4.22	*****	0.0931	3.40	D 0.89
JUN 19,85	JUN 18,85	51.0	8.0	*****	UG 7.02	*****	LG 0.0149	0.90	0.14
JUN 21,85	JUN 20,85	86.0	10.2	*****	UG 6.36	*****	0.0177	1.95	0.25
JUN 23,85	JUN 22,85	160.0	D 19.3	4.38	4.65	*****	0.0507	2.80	0.39
JUN 24,85	JUN 23,85	459.0	21.1	4.37	4.65	*****	0.0542	2.80	0.37
JUL 3,85	JUL 2,85	112.0	> 100.0	*****	3.67	*****	UG 0.3000	UG 13.20	2.01
JUL 7,85	JUL 6,85	321.0	20.0	B 5.40	B 6.34	*****	0.0166	3.10	0.62
JUL 14,85	JUL 13,85	322.0	42.6	4.16	4.30	*****	0.0894	6.05	0.89
JUL 15,85	JUL 14,85	418.0	43.3	4.16	4.30	*****	0.0894	6.05	0.89
JUL 16,85	JUL 15,85	462.0	7.3	4.82	UG 5.62	*****	0.0207	0.65	0.20
JUL 22,85	JUL 21,85	446.0	13.6	4.74	UG 5.32	*****	0.0234	2.45	0.25
JUL 23,85	JUL 22,85	37.0	LG 2.4	*****	UG 6.62	*****	LG 0.0144	LG 0.10	<W 0.01
JUL 26,85	JUL 25,85	297.0	14.3	4.57	4.66	*****	0.0422	1.40	0.22
JUL 29,85	JUL 28,85	17.0	*****	*****	3.89	*****	0.1940	*****	*****
AUG 1,85	JUL 31,85	72.0	18.0	*****	UG 6.59	*****	0.0186	3.30	0.74
AUG 7,85	AUG 6,85	33.0	*****	*****	LG 3.42	*****	UG 0.4500	*****	*****
AUG 8,85	AUG 7,85	852.0	29.2	4.55	4.56	*****	0.0499	2.75	0.38
AUG 11,85	AUG 10,85	289.0	69.4	D 3.89	3.85	*****	0.1650	7.35	0.86
AUG 15,85	AUG 14,85	353.0	40.0	4.06	4.06	*****	0.1070	3.30	0.65

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 2,85	APR 1,85	0.24	0.16	<T 0.010	<T 0.015	0.090	0.235	0.0513
APR 3,85	APR 2,85	0.26	0.15	0.030	<T 0.005	0.025	0.105	0.0339
APR 4,85	APR 3,85	<W 0.01	0.07	<T 0.005	<T 0.010	<T 0.020	0.175	0.0380
APR 5,85	APR 4,85	0.16	0.08	<T 0.015	0.025	0.035	0.260	0.0309
APR 15,85	APR 14,85	1.06	0.58	D 0.185	0.110	0.200	1.800	UG 0.3162
APR 16,85	APR 15,85	0.86	0.39	0.125	0.030	0.145	0.840	0.0617
APR 18,85	APR 17,85	UG 1.46	0.20	0.195	0.030	0.030	UG 2.350	0.0224
APR 19,85	APR 18,85	UG 1.57	0.19	0.115	0.040	0.050	1.650	0.0123
APR 20,85	APR 19,85	0.59	0.13	0.070	<T 0.010	0.115	0.830	0.0380
APR 28,85	APR 27,85	0.49	0.10	0.055	0.055	0.110	0.220	0.0174
MAY 5,85	MAY 4,85	0.97	B 1.02	0.100	B 0.315	UG 0.615	1.350	LG 0.0001
MAY 6,85	MAY 5,85	UG 2.30	0.39	0.395	UG 0.215	0.155	UG 3.650	0.1288
MAY 7,85	MAY 6,85	*****	*****	*****	*****	*****	*****	*****
MAY 8,85	MAY 7,85	*****	*****	*****	*****	*****	*****	*****
MAY 21,85	MAY 20,85	*****	0.18	*****	*****	*****	1.150	0.0055
MAY 26,85	MAY 25,85	0.53	0.09	0.100	0.040	0.065	0.530	0.0162
MAY 31,85	MAY 26,85	0.49	0.11	0.050	0.040	0.055	0.795	0.0692
JUN 1,85	MAY 31,85	UG 1.78	0.20	0.355	0.170	0.085	0.825	0.0138
JUN 10,85	JUN 9,85	*****	*****	*****	*****	*****	UG 2.650	0.0490
JUN 16,85	JUN 15,85	0.40	0.11	0.050	0.060	0.055	D 0.745	0.1349
JUN 17,85	JUN 16,85	0.15	<T 0.03	<T 0.015	0.030	0.085	0.450	0.0603
JUN 18,85	JUN 17,85	0.13	<T 0.02	0.020	0.035	0.040	0.700	0.0603
JUN 19,85	JUN 18,85	1.13	0.07	0.130	0.085	UG 0.485	0.235	LG 0.0001
JUN 21,85	JUN 20,85	1.24	0.13	0.100	0.120	0.100	0.110	LG 0.0004
JUN 23,85	JUN 22,85	0.77	0.09	0.105	0.055	0.020	0.260	0.0224
JUN 24,85	JUN 23,85	0.71	0.07	0.100	0.055	<T 0.015	0.260	0.0224
JUL 3,85	JUL 2,85	*****	0.51	*****	*****	*****	0.830	0.2138
JUL 7,85	JUL 6,85	B 1.55	D 0.11	0.150	D 0.105	0.025	0.330	B 0.0005
JUL 14,85	JUL 13,85	1.22	0.18	0.135	0.110	0.060	0.755	0.0501
JUL 15,85	JUL 14,85	1.20	0.18	0.135	0.105	0.055	0.755	0.0501
JUL 16,85	JUL 15,85	0.36	<T 0.04	0.040	0.075	0.060	0.145	LG 0.0024
JUL 22,85	JUL 21,85	0.77	0.09	0.060	0.050	0.080	0.470	LG 0.0048
JUL 23,85	JUL 22,85	*****	<T 0.04	*****	*****	*****	*****	LG 0.0002
JUL 26,85	JUL 25,85	0.17	<T 0.05	0.020	0.040	0.035	0.255	0.0219
JUL 29,85	JUL 28,85	*****	*****	*****	*****	*****	*****	0.1288
AUG 1,85	JUL 31,85	UG 1.92	0.19	0.195	0.060	0.105	0.535	LG 0.0003
AUG 7,85	AUG 6,85	*****	*****	*****	*****	*****	*****	UG 0.3802
AUG 8,85	AUG 7,85	*****	<W 0.01	*****	*****	*****	*****	0.0275
AUG 11,85	AUG 10,85	*****	0.18	*****	*****	*****	*****	0.1413
AUG 15,85	AUG 14,85	*****	0.09	*****	*****	*****	*****	0.0871

ONTARIO MINISTRY OF THE ENVIRONMENT
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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
AUG 16,85	AUG 15,85	755 750	1030 1415	1	12.4	1	42125	2	1	57	
AUG 19,85	AUG 18,85	800 750	1430 300	1	18.1	1	42126	2	1	101	
AUG 20,85	AUG 19,85	750 750	400 700	1	0.4	1	42127	2	1	117	C
AUG 24,85	AUG 23,85	830 830	230 745	1	5.4	1	42129	2	1	105	
AUG 25,85	AUG 24,85	830 1000	900 600	1	13.0	1	42130	2	1	93	
AUG 27,85	AUG 26,85	755 755	1830 700	1	3.1	1	42131	2	1	93	
AUG 28,85	AUG 27,85	755 750	600 745	1	4.0	1	42132	2	1	****	GE
AUG 29,85	AUG 28,85	750 750	815 1030	1	0.3	1	42133	2	1	171	Q N
AUG 30,85	AUG 29,85	755 755	2200 744	1	47.3	1	42134	2	1	111	
AUG 31,85	AUG 30,85	755 930	815 1130	1	4.4	1	42135	2	1	****	EQ
SEP 2,85	SEP 1,85	800 930	915 ****	1	2.0	1	42136	2	1	83	
SEP 4,85	SEP 3,85	800 750	400 700	1	29.4	1	42137	2	1	23	Q N
SEP 5,85	SEP 4,85	750 755	900 1100	1	4.0	1	42138	2	1	105	
SEP 6,85	SEP 5,85	755 750	1300 1800	1	****	1	42139	2	1	68	Q
SEP 10,85	SEP 9,85	800 750	1830 600	1	8.0	1	42140	2	1	104	
SEP 24,85	SEP 23,85	755 755	530 755	1	12.1	1	42141	2	1	104	
SEP 25,85	SEP 24,85	755 1030	755 1200	1	1.2	1	42142	2	1	81	
SEP 27,85	SEP 26,85	755 755	945 2200	1	18.2	1	42143	2	1	111	
OCT 1,85	SEP 30,85	755 755	1800 730	1	16.0	1	42145	2	1	99	
OCT 5,85	OCT 4,85	900 900	1900 800	1	2.3	1	42146	2	1	130	C NJ
OCT 6,85	OCT 5,85	900 1000	1000 800	1	3.1	1	42147	2	1	131	N
OCT 7,85	OCT 6,85	1000 755	1030 500	1	8.2	1	42148	2	1	71	
OCT 9,85	OCT 8,85	755 755	1900 730	1	8.0	1	42149	2	1	101	
OCT 10,85	OCT 9,85	755 750	945 1000	1	8.0	1	42150	2	1	97	
OCT 11,85	OCT 10,85	750 755	900 1100	1	0.2	1	42151	2	1	93	E
OCT 13,85	OCT 12,85	900 900	1430 700	1	16.0	1	42152	2	1	103	
OCT 15,85	OCT 14,85	750 750	500 750	1	3.0	1	42153	2	1	99	
OCT 16,85	OCT 15,85	750 755	755 500	1	3.3	1	42154	2	1	90	J
OCT 19,85	OCT 18,85	800 830	1715 730	1	7.3	1	42155	2	1	81	
OCT 25,85	OCT 24,85	755 755	815 1600	1	5.4	1	42156	2	1	107	
OCT 27,85	OCT 26,85	800 955	2330 400	1	3.4	1	42157	2	1	104	A
NOV 3,85	NOV 2,85	800 900	300 900	1	4.0	2	42159	2	1	28	
NOV 4,85	NOV 3,85	900 750	900 700	1	13.0	2	42160	2	1	8	U G NC
NOV 5,85	NOV 4,85	750 755	900 500	1	17.2	1	42161	2	1	104	HC
NOV 7,85	NOV 6,85	755 750	1800 750	1	1.0	2	42164	2	1	127	CM
NOV 8,85	NOV 7,85	750 750	750 630	1	6.2	2	42165	2	1	115	N
NOV 9,85	NOV 8,85	750 900	600 900	2	3.4	2	42166	2	1	90	
NOV 10,85	NOV 9,85	900 1030	900 100	2	14.2	2	42167	2	1	51	
NOV 13,85	NOV 12,85	800 750	1700 700	1	17.1	2	42168	2	1	102	
NOV 15,85	NOV 14,85	750 750	815 2100	3	5.2	2	42169	2	1	101	J

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 16,85	AUG 15,85	460.0	9.5	B 6.08	B 6.38	*****	0.0291	2.15	0.19
AUG 19,85	AUG 18,85	1183.0	50.1	3.95	4.01	*****	0.1350	4.85	0.59
AUG 20,85	AUG 19,85	30.0	*****	*****	B 6.09	*****	0.0188	*****	*****
AUG 24,85	AUG 23,85	365.0	60.0	3.94	4.00	*****	0.1500	3.70	1.45
AUG 25,85	AUG 24,85	779.0	67.8	3.84	3.91	*****	0.1860	6.60	0.58
AUG 27,85	AUG 26,85	186.0	70.5	3.83	3.90	*****	0.1910	5.65	0.94
AUG 28,85	AUG 27,85	*****	*****	*****	*****	*****	*****	*****	*****
AUG 29,85	AUG 28,85	33.0	24.4	*****	5.21	*****	0.0369	5.65	0.30
AUG 30,85	AUG 29,85	3389.0	25.3	4.23	4.35	*****	0.0783	2.65	0.23
AUG 31,85	AUG 30,85	*****	*****	*****	*****	*****	*****	*****	*****
SEP 2,85	SEP 1,85	107.0	> 100.0	LG 3.61	3.69	*****	UG 0.3170	12.60	1.78
SEP 4,85	SEP 3,85	443.0	15.4	4.51	4.71	*****	0.0464	1.80	0.22
SEP 5,85	SEP 4,85	271.0	17.5	4.54	4.60	*****	0.0517	2.35	0.22
SEP 6,85	SEP 5,85	7445.0	16.8	4.41	4.49	*****	0.0578	1.75	0.19
SEP 10,85	SEP 9,85	535.0	13.8	D 4.50	4.62	*****	0.0480	1.20	0.28
SEP 24,85	SEP 23,85	811.0	13.1	4.63	4.65	*****	0.0421	1.35	0.17
SEP 25,85	SEP 24,85	63.0	14.4	*****	4.64	*****	0.0413	1.65	0.17
SEP 27,85	SEP 26,85	1302.0	31.0	4.17	4.24	*****	0.0917	2.95	0.25
OCT 1,85	SEP 30,85	1019.0	51.0	3.96	4.02	*****	0.1350	4.65	0.76
OCT 5,85	OCT 4,85	193.0	24.7	4.52	4.32	*****	0.0657	1.95	0.52
OCT 6,85	OCT 5,85	261.0	25.0	4.33	4.31	*****	0.0669	1.95	0.52
OCT 7,85	OCT 6,85	378.0	D 20.6	4.42	4.41	*****	0.0553	D 1.65	D 0.41
OCT 9,85	OCT 8,85	521.0	42.3	4.03	4.05	*****	0.1100	4.40	0.52
OCT 10,85	OCT 9,85	500.0	47.5	4.01	4.03	*****	0.1160	4.05	0.78
OCT 11,85	OCT 10,85	12.0	*****	*****	*****	*****	*****	*****	*****
OCT 13,85	OCT 12,85	1062.0	33.8	4.14	4.19	*****	0.0879	3.15	0.44
OCT 15,85	OCT 14,85	191.0	17.9	4.58	4.48	*****	0.0531	1.60	0.27
OCT 16,85	OCT 15,85	192.0	D 13.4	3.87	4.69	*****	0.0409	1.30	0.21
OCT 19,85	OCT 18,85	383.0	43.3	4.05	4.09	*****	0.1060	3.90	0.72
OCT 25,85	OCT 24,85	372.0	22.9	4.36	4.42	*****	0.0645	1.95	0.31
OCT 27,85	OCT 26,85	227.0	16.6	4.54	4.64	*****	0.0466	1.45	0.32
NOV 3,85	NOV 2,85	74.0	8.1	*****	5.14	*****	0.0262	0.65	0.14
NOV 4,85	NOV 3,85	68.0	7.7	*****	UG 5.21	*****	0.0250	0.50	0.15
NOV 5,85	NOV 4,85	1152.0	LG 4.4	UG 5.11	D 5.27	*****	0.0238	LG 0.20	<T 0.04
NOV 7,85	NOV 6,85	82.0	64.3	*****	3.93	*****	0.1590	5.10	1.19
NOV 8,85	NOV 7,85	459.0	49.3	4.08	4.07	*****	0.1200	3.95	0.88
NOV 9,85	NOV 8,85	198.0	26.5	4.39	4.39	*****	0.0659	1.85	0.71
NOV 10,85	NOV 9,85	470.0	11.5	4.66	4.71	*****	0.0383	0.50	0.25
NOV 13,85	NOV 12,85	1120.0	D 16.6	4.50	4.51	*****	0.0529	1.35	0.13
NOV 15,85	NOV 14,85	337.0	20.2	4.64	4.41	*****	0.0621	1.40	0.34

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
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STATION NAME : BALSAM LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 16,85	AUG 15,85	1.07	<T 0.02	0.075	D 0.145	0.065	0.105	B 0.0004
AUG 19,85	AUG 18,85	0.25	0.12	0.020	0.030	0.020	0.370	0.0977
AUG 20,85	AUG 19,85	*****	*****	*****	*****	*****	*****	B 0.0008
AUG 24,85	AUG 23,85	0.56	0.27	0.140	0.055	0.050	0.320	0.1000
AUG 25,85	AUG 24,85	0.08	0.10	<T 0.010	0.040	0.055	0.345	0.1230
AUG 27,85	AUG 26,85	0.17	0.20	0.020	0.080	0.070	0.285	0.1259
AUG 28,85	AUG 27,85	*****	*****	*****	*****	*****	*****	*****
AUG 29,85	AUG 28,85	*****	0.25	*****	*****	*****	*****	0.0062
AUG 30,85	AUG 29,85	0.06	<T 0.02	<T 0.005	0.095	0.080	0.245	0.0447
AUG 31,85	AUG 30,85	*****	*****	*****	*****	*****	*****	*****
SEP 2,85	SEP 1,85	1.12	0.52	0.170	0.135	0.100	1.120	0.2042
SEP 4,85	SEP 3,85	0.17	<T 0.05	0.030	0.115	0.135	0.250	0.0195
SEP 5,85	SEP 4,85	0.16	<T 0.04	0.015	<T 0.010	0.045	0.435	0.0251
SEP 6,85	SEP 5,85	0.10	<T 0.04	<T 0.010	<W 0.005	<T 0.015	0.175	0.0324
SEP 10,85	SEP 9,85	0.17	<T 0.06	0.015	<T 0.005	0.025	0.240	0.0240
SEP 24,85	SEP 23,85	0.18	<T 0.03	0.025	<W 0.005	0.025	0.110	0.0224
SEP 25,85	SEP 24,85	0.36	<T 0.06	0.045	0.055	0.080	0.055	0.0229
SEP 27,85	SEP 26,85	0.18	0.09	0.025	<T 0.015	0.020	0.145	0.0575
OCT 1,85	SEP 30,85	0.36	0.20	0.065	0.035	0.060	0.320	0.0955
OCT 5,85	OCT 4,85	0.19	0.12	0.020	0.040	0.020	0.225	0.0479
OCT 6,85	OCT 5,85	0.18	0.11	0.020	0.030	0.020	0.220	0.0490
OCT 7,85	OCT 6,85	0.14	0.13	0.015	0.025	0.035	0.205	0.0389
OCT 9,85	OCT 8,85	0.35	0.14	0.035	0.045	0.050	0.230	0.0891
OCT 10,85	OCT 9,85	0.17	0.31	0.030	0.050	0.130	0.480	0.0933
OCT 11,85	OCT 10,85	*****	*****	*****	*****	*****	*****	*****
OCT 13,85	OCT 12,85	0.10	0.12	<T 0.010	0.020	0.050	0.280	0.0646
OCT 15,85	OCT 14,85	0.10	0.07	<T 0.010	<T 0.015	0.070	0.130	0.0331
OCT 16,85	OCT 15,85	0.11	0.07	<T 0.010	0.040	0.060	0.185	0.0204
OCT 19,85	OCT 18,85	0.16	0.12	0.020	0.035	0.025	0.470	0.0813
OCT 25,85	OCT 24,85	0.10	0.12	0.015	<T 0.010	D 0.125	0.190	0.0380
OCT 27,85	OCT 26,85	0.27	<T 0.06	0.030	0.020	0.065	0.235	0.0229
NOV 3,85	NOV 2,85	0.14	0.10	0.015	<T 0.005	0.100	0.095	0.0072
NOV 4,85	NOV 3,85	0.16	0.10	0.020	<T 0.010	0.140	0.095	LG 0.0062
NOV 5,85	NOV 4,85	<T 0.02	<T 0.03	<W 0.005	<T 0.005	0.035	0.020	D 0.0054
NOV 7,85	NOV 6,85	0.53	0.26	0.050	0.055	0.270	0.450	0.1175
NOV 8,85	NOV 7,85	0.30	0.23	0.020	0.025	0.075	0.645	0.0851
NOV 9,85	NOV 8,85	0.38	0.15	0.020	<T 0.020	0.085	0.445	0.0407
NOV 10,85	NOV 9,85	0.06	<T 0.03	<T 0.005	<T 0.005	0.025	0.045	0.0195
NOV 13,85	NOV 12,85	<T 0.03	0.03	<T 0.005	<T 0.010	0.035	0.085	0.0309
NOV 15,85	NOV 14,85	0.08	0.12	<T 0.010	<T 0.010	0.025	0.145	0.0389

ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
NOV 17,85	NOV 16,85	800 1000	1100 700	3	5.0	2	42170	2	1	107	
NOV 19,85	NOV 18,85	800 755	1800 700	1	7.1	2	42171	2	1	137	N
NOV 20,85	NOV 19,85	755 750	100 600	1	6.2	2	42172	2	1	170	N
NOV 22,85	NOV 21,85	800 755	700 755	2	1.1	2	42173	2	1	58	
NOV 23,85	NOV 22,85	755 930	900 1700	2	6.2	2	42174	2	1	97	
NOV 27,85	NOV 26,85	800 755	830 1900	2	2.1	2	42175	2	1	72	
NOV 28,85	NOV 27,85	755 750	400 745	2	0.4	2	42176	2	1	167	N
DEC 1,85	NOV 30,85	800 1000	1700 800	3	0.2	2	42177	2	1	241	N
DEC 2,85	DEC 1,85	1000 755	2300 200	1	6.2	2	42178	2	1	113	
DEC 3,85	DEC 2,85	755 750	900 2200	2	3.4	2	42179	2	1	45	B NJHCM
DEC 5,85	DEC 4,85	800 755	1500 700	*	0.1	2	42180	2	1	31	E N
DEC 9,85	DEC 8,85	800 755	1000 745	3	0.4	1	42181	2	1	339	N
DEC 11,85	DEC 10,85	800 755	815 1600	2	4.3	2	42182	2	1	90	
DEC 12,85	DEC 11,85	755 750	2300 700	2	1.0	2	42183	2	1	171	N
DEC 15,85	DEC 14,85	800 945	900 800	2	3.2	2	42184	2	1	96	
DEC 16,85	DEC 15,85	945 800	1100 600	2	1.2	2	42185	2	1	54	C
DEC 18,85	DEC 17,85	800 755	1100 700	*	0.4	2	42186	2	1	436	NCM
DEC 19,85	DEC 18,85	755 750	100 600	2	1.0	2	42187	2	1	82	HM
DEC 20,85	DEC 19,85	750 755	1900 600	2	0.3	2	42188	2	1	171	N
DEC 22,85	DEC 21,85	800 900	1400 600	2	0.4	2	42189	2	1	296	N
DEC 23,85	DEC 22,85	900 750	1000 700	2	7.3	2	42190	2	1	79	
DEC 24,85	DEC 23,85	750 755	100 745	2	5.4	2	42191	2	1	96	
DEC 27,85	DEC 26,85	800 915	1100 800	1	0.3	2	42192	2	1	31	E N
DEC 30,85	DEC 29,85	800 755	2000 745	2	1.4	2	42193	2	1	112	
DEC 31,85	DEC 30,85	755 750	100 600	2	2.2	2	42194	2	1	112	

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 17,85	NOV 16,85	345.0	25.6	4.32	4.33	*****	0.0687	1.55	0.59
NOV 19,85	NOV 18,85	625.0	12.9	4.57	4.62	*****	0.0417	0.95	0.14
NOV 20,85	NOV 19,85	679.0	34.1	4.17	4.21	*****	0.0898	2.65	D 0.55
NOV 22,85	NOV 21,85	41.0	7.0	*****	5.08	*****	0.0257	0.30	0.17
NOV 23,85	NOV 22,85	388.0	13.6	4.62	4.69	*****	0.0412	0.95	0.26
NOV 27,85	NOV 26,85	97.0	15.0	4.54	4.61	*****	0.0452	0.90	0.31
NOV 28,85	NOV 27,85	43.0	LG 5.4	*****	UG 5.17	*****	0.0242	LG 0.20	0.16
DEC 1,85	NOV 30,85	31.0	> 100.0	*****	LG 3.53	*****	UG 0.3890	9.70	*****
DEC 2,85	DEC 1,85	453.0	20.2	4.41	4.46	*****	0.0550	1.35	0.33
DEC 3,85	DEC 2,85	100.0	8.8	UG 5.75	B 6.45	*****	LG 0.0171	0.40	0.44
DEC 5,85	DEC 4,85	2.0	*****	*****	*****	*****	*****	*****	*****
DEC 9,85	DEC 8,85	87.0	82.1	*****	3.78	*****	0.2140	6.20	1.50
DEC 11,85	DEC 10,85	249.0	27.8	4.23	4.27	*****	0.0785	1.55	0.54
DEC 12,85	DEC 11,85	110.0	15.4	4.55	4.54	*****	0.0503	0.50	0.40
DEC 15,85	DEC 14,85	198.0	23.5	4.41	4.41	*****	0.0616	0.80	0.75
DEC 16,85	DEC 15,85	42.0	*****	*****	4.84	*****	0.0364	0.75	1.19
DEC 18,85	DEC 17,85	112.0	18.2	UG 7.24	UG 7.56	*****	LG 0.0127	0.35	0.40
DEC 19,85	DEC 18,85	53.0	*****	*****	UG 5.79	*****	LG 0.0199	0.30	0.47
DEC 20,85	DEC 19,85	33.0	61.8	*****	UG 7.83	*****	LG 0.0035	1.20	D 1.16
DEC 22,85	DEC 21,85	76.0	28.7	*****	4.28	*****	0.0809	1.65	0.64
DEC 23,85	DEC 22,85	371.0	28.5	4.32	4.28	*****	0.0764	1.35	0.68
DEC 24,85	DEC 23,85	335.0	22.6	4.39	4.36	*****	0.0655	0.85	0.56
DEC 27,85	DEC 26,85	6.0	*****	*****	*****	*****	*****	*****	*****
DEC 30,85	DEC 29,85	101.0	10.4	UG 4.91	D 4.94	*****	0.0293	0.55	0.28
DEC 31,85	DEC 30,85	159.0	46.9	4.12	4.09	*****	0.1140	2.35	1.44

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ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 17,85	NOV 16,85	0.14	0.13	0.015	<T 0.015	0.035	0.250	0.0468
NOV 19,85	NOV 18,85	0.07	0.07	<T 0.005	<T 0.010	0.030	0.020	0.0240
NOV 20,85	NOV 19,85	0.11	0.18	0.030	<T 0.020	0.115	0.255	0.0617
NOV 22,85	NOV 21,85	*****	<T 0.06	*****	*****	*****	<W 0.005	0.0083
NOV 23,85	NOV 22,85	0.12	0.09	0.015	<T 0.020	0.050	D 0.110	0.0204
NOV 27,85	NOV 26,85	0.15	0.14	0.020	<T 0.015	0.100	0.035	0.0245
NOV 28,85	NOV 27,85	*****	0.08	*****	*****	*****	<W 0.005	LG 0.0068
DEC 1,85	NOV 30,85	*****	0.45	*****	*****	*****	*****	UG 0.2951
DEC 2,85	DEC 1,85	0.12	0.08	<T 0.015	<T 0.005	<T 0.020	0.115	0.0347
DEC 3,85	DEC 2,85	0.52	0.08	0.075	UG 0.345	0.030	<W 0.005	B 0.0004
DEC 5,85	DEC 4,85	*****	*****	*****	*****	*****	*****	*****
DEC 9,85	DEC 8,85	0.20	0.26	<T 0.010	<T 0.020	0.135	0.415	0.1660
DEC 11,85	DEC 10,85	0.05	0.07	<T 0.005	<T 0.005	0.025	0.155	0.0537
DEC 12,85	DEC 11,85	0.13	0.09	0.020	<T 0.010	0.045	<T 0.005	0.0288
DEC 15,85	DEC 14,85	0.44	0.23	0.045	<T 0.010	0.120	0.055	0.0389
DEC 16,85	DEC 15,85	*****	0.46	*****	*****	*****	<W 0.005	0.0145
DEC 18,85	DEC 17,85	UG 2.85	0.25	0.065	<T 0.015	0.120	0.040	LG 0.0000
DEC 19,85	DEC 18,85	1.06	0.24	0.035	<T 0.005	0.130	0.020	LG 0.0016
DEC 20,85	DEC 19,85	*****	UG 1.16	*****	*****	*****	*****	LG 0.0000
DEC 22,85	DEC 21,85	0.20	0.25	0.040	0.025	0.085	0.285	0.0525
DEC 23,85	DEC 22,85	0.18	0.27	<T 0.010	<T 0.015	0.080	0.175	0.0525
DEC 24,85	DEC 23,85	0.06	0.19	<T 0.010	<T 0.005	0.070	0.115	0.0437
DEC 27,85	DEC 26,85	*****	*****	*****	*****	*****	*****	*****
DEC 30,85	DEC 29,85	D 0.26	0.28	0.035	<T 0.015	0.155	0.050	D 0.0115
DEC 31,85	DEC 30,85	0.63	0.52	0.070	0.025	0.295	0.455	0.0813

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JAN 2,85	JAN 1,85	1000 730	**** *	3	10.4	2	56747	2	1	U 7	FI
JAN 3,85	JAN 2,85	730 850	**** *	2	0.3	2	56749	2	1	67	E
JAN 4,85	JAN 3,85	850 745	**** *	2	0.1	2	56752	2	1	62	E
JAN 5,85	JAN 4,85	745 1000	**** *	2	0.7	2	56754	2	1	66	
JAN 6,85	JAN 5,85	1000 1000	1800 1000	2	3.1	2	56756	2	1	88	J
JAN 7,85	JAN 6,85	1000 915	1000 915	2	6.2	2	56758	2	1	U 1	EFI
JAN 8,85	JAN 7,85	915 900	915 2400	2	6.0	2	56761	2	1	27	N
JAN 13,85	JAN 12,85	800 1000	800 1800	2	1.2	2	56764	2	1	105	HM
JAN 14,85	JAN 13,85	1000 845	1800 845	3	1.2	2	56766	2	1	76	
JAN 15,85	JAN 14,85	845 845	845 2400	2	3.6	2	56768	2	1	72	
JAN 17,85	JAN 16,85	800 930	800 1200	2	3.3	2	56770	2	1	U 0	EFI
JAN 18,85	JAN 17,85	930 830	930 830	2	2.6	2	56772	2	1	U 28	FI
JAN 19,85	JAN 18,85	830 945	830 945	2	4.7	2	56774	2	1	U 77	F
JAN 20,85	JAN 19,85	945 900	945 900	2	2.5	2	56776	2	1	U 78	FJ
JAN 21,85	JAN 20,85	900 840	1800 300	2	2.0	2	56778	2	1	U 86	FJ
JAN 22,85	JAN 21,85	840 840	**** *	2	1.5	2	56780	2	1	U 98	FJ
JAN 23,85	JAN 22,85	840 805	700 805	2	1.4	2	56782	2	1	U 99	FJ
JAN 24,85	JAN 23,85	805 820	**** *	2	2.3	2	56784	2	1	U 99	FJ
JAN 25,85	JAN 24,85	820 830	**** *	2	2.1	2	56786	2	1	U 101	FJ
JAN 26,85	JAN 25,85	830 910	**** *	2	0.2	2	56788	2	1	U 202	FJ
JAN 27,85	JAN 26,85	910 930	**** *	2	0.8	2	56790	2	1	U 117	FJ
JAN 28,85	JAN 27,85	930 815	**** *	2	2.6	2	56792	2	1	U 91	FJ
FEB 1,85	JAN 31,85	800 815	900 1600	2	1.7	2	56794	2	1	77	
FEB 4,85	FEB 3,85	900 815	1700 2400	2	2.2	2	56796	2	1	72	
FEB 6,85	FEB 5,85	800 840	830 2400	2	1.0	2	56798	2	1	20	E N
FEB 12,85	FEB 11,85	800 915	1800 2000	2	1.8	2	42502	2	1	65	
FEB 13,85	FEB 12,85	915 815	915 815	3	15.1	2	42504	2	1	64	
FEB 14,85	FEB 13,85	815 840	815 840	2	8.2	2	42506	2	1	78	Q
FEB 15,85	FEB 14,85	840 815	**** *	2	2.5	2	42508	2	1	81	J
FEB 16,85	FEB 15,85	815 930	**** *	2	0.8	2	42510	2	1	50	
FEB 17,85	FEB 16,85	930 1000	**** *	2	5.5	2	42512	2	1	75	
FEB 18,85	FEB 17,85	1000 840	**** *	2	1.0	2	42514	2	1	78	
FEB 19,85	FEB 18,85	840 830	1800 830	2	13.2	2	42516	2	1	51	
FEB 20,85	FEB 19,85	830 745	**** *	2	2.8	2	42518	2	1	75	
FEB 21,85	FEB 20,85	745 810	**** *	2	1.0	2	42520	2	1	109	
FEB 22,85	FEB 21,85	810 830	1800 830	1	10.4	2	42522	2	1	86	
FEB 23,85	FEB 22,85	830 815	700 815	1	2.4	2	42524	2	1	97	
FEB 24,85	FEB 23,85	815 1000	815 700	1	27.4	2	42526	2	1	86	
FEB 25,85	FEB 24,85	1000 840	1100 1230	3	2.7	2	42530	2	1	96	
FEB 27,85	FEB 26,85	815 820	1800 820	2	3.8	2	42532	2	1	90	

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 2,85	JAN 1,85	52.0	*****	*****	*****	*****	*****	*****	*****
JAN 3,85	JAN 2,85	13.0	*****	*****	*****	*****	*****	*****	*****
JAN 4,85	JAN 3,85	4.0	*****	*****	*****	*****	*****	*****	*****
JAN 5,85	JAN 4,85	30.0	23.3	*****	4.38	0.0618	0.0606	2.00	0.40
JAN 6,85	JAN 5,85	176.0	8.9	4.26	4.82	0.0356	0.0343	0.75	LG 0.06
JAN 7,85	JAN 6,85	4.0	*****	*****	*****	*****	*****	*****	*****
JAN 8,85	JAN 7,85	106.0	46.1	*****	4.01	0.1232	0.1220	1.10	1.26
JAN 13,85	JAN 12,85	81.0	17.4	*****	4.52	0.0512	0.0501	1.30	0.30
JAN 14,85	JAN 13,85	59.0	50.8	*****	4.12	0.1170	0.1140	3.10	1.62
JAN 15,85	JAN 14,85	168.0	22.2	4.38	4.44	UG 0.2366	UG 0.2330	1.70	0.47
JAN 17,85	JAN 16,85	1.0	*****	*****	*****	*****	*****	*****	*****
JAN 18,85	JAN 17,85	48.0	7.9	*****	4.89	0.0304	0.0293	0.25	0.19
JAN 19,85	JAN 18,85	232.0	37.7	4.07	4.10	0.1004	0.0993	0.40	1.15
JAN 20,85	JAN 19,85	126.0	44.2	*****	4.00	0.1180	0.1160	0.40	1.38
JAN 21,85	JAN 20,85	111.0	11.1	*****	4.70	0.0368	0.0355	0.35	0.26
JAN 22,85	JAN 21,85	95.0	7.1	*****	4.87	*****	0.0300	0.35	0.09
JAN 23,85	JAN 22,85	89.0	7.9	*****	4.85	*****	0.0312	0.65	0.09
JAN 24,85	JAN 23,85	147.0	*****	UG 4.94	*****	*****	*****	*****	*****
JAN 25,85	JAN 24,85	137.0	*****	4.10	*****	*****	*****	*****	*****
JAN 26,85	JAN 25,85	26.0	*****	*****	*****	0.0826	0.0958	*****	*****
JAN 27,85	JAN 26,85	60.0	46.1	*****	*****	0.0808	0.1140	0.80	1.37
JAN 28,85	JAN 27,85	153.0	33.2	4.13	4.18	*****	0.0880	0.75	0.95
FEB 1,85	JAN 31,85	84.0	50.3	*****	3.98	*****	0.1290	1.10	1.28
FEB 4,85	FEB 3,85	102.0	56.0	*****	3.92	*****	0.1420	0.45	1.81
FEB 6,85	FEB 5,85	13.0	*****	*****	*****	*****	*****	*****	*****
FEB 12,85	FEB 11,85	75.0	15.0	*****	4.61	*****	0.0440	0.60	0.32
FEB 13,85	FEB 12,85	629.0	13.4	4.51	4.63	*****	0.0441	0.85	0.16
FEB 14,85	FEB 13,85	413.0	35.2	4.05	4.12	*****	0.1030	1.40	0.87
FEB 15,85	FEB 14,85	130.0	9.3	4.34	4.73	*****	0.0327	0.40	0.19
FEB 16,85	FEB 15,85	26.0	*****	*****	4.48	0.0504	0.0492	*****	*****
FEB 17,85	FEB 16,85	266.0	47.8	3.80	3.99	*****	0.1200	0.65	1.46
FEB 18,85	FEB 17,85	50.0	23.0	*****	4.34	*****	0.0613	0.85	0.62
FEB 19,85	FEB 18,85	439.0	35.1	4.15	4.22	*****	0.0930	0.90	1.04
FEB 20,85	FEB 19,85	135.0	24.8	4.30	4.39	*****	0.0658	0.55	0.69
FEB 21,85	FEB 20,85	70.0	55.3	*****	4.05	*****	0.1330	2.00	1.57
FEB 22,85	FEB 21,85	576.0	41.7	4.05	4.10	*****	0.1170	2.10	0.87
FEB 23,85	FEB 22,85	150.0	36.1	4.13	4.20	*****	0.0998	2.55	0.64
FEB 24,85	FEB 23,85	1522.0	13.1	4.45	4.52	*****	0.0559	1.00	0.20
FEB 25,85	FEB 24,85	167.0	37.1	4.10	4.12	*****	0.1130	2.90	0.43
FEB 27,85	FEB 26,85	221.0	34.8	4.19	4.25	*****	0.0879	2.25	0.92

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 2,85	JAN 1,85	*****	*****	*****	*****	*****	*****	*****
JAN 3,85	JAN 2,85	*****	*****	*****	*****	*****	*****	*****
JAN 4,85	JAN 3,85	*****	*****	*****	*****	*****	*****	*****
JAN 5,85	JAN 4,85	*****	0.26	*****	*****	*****	*****	0.0417
JAN 6,85	JAN 5,85	0.05	<T 0.01	0.010	0.020	0.025	0.035	0.0151
JAN 7,85	JAN 6,85	*****	*****	*****	*****	*****	*****	*****
JAN 8,85	JAN 7,85	0.13	0.37	0.010	0.015	0.035	0.150	0.0977
JAN 13,85	JAN 12,85	0.55	0.12	0.030	0.025	0.080	0.075	0.0302
JAN 14,85	JAN 13,85	*****	0.52	*****	*****	*****	0.840	0.0759
JAN 15,85	JAN 14,85	0.06	0.09	<T 0.010	0.030	<T 0.010	0.435	0.0363
JAN 17,85	JAN 16,85	*****	*****	*****	*****	*****	*****	*****
JAN 18,85	JAN 17,85	*****	0.06	*****	*****	*****	0.015	0.0129
JAN 19,85	JAN 18,85	0.05	0.20	<W 0.005	0.050	0.055	0.050	0.0794
JAN 20,85	JAN 19,85	<T 0.03	0.11	<W 0.005	<W 0.005	<T 0.020	0.030	0.1000
JAN 21,85	JAN 20,85	<T 0.04	0.08	<T 0.010	<T 0.005	0.035	LG 0.010	0.0200
JAN 22,85	JAN 21,85	<T 0.04	0.15	<T 0.010	<T 0.015	0.070	LG 0.010	0.0135
JAN 23,85	JAN 22,85	0.08	0.05	0.025	<T 0.015	0.035	0.020	0.0141
JAN 24,85	JAN 23,85	*****	*****	*****	*****	*****	*****	*****
JAN 25,85	JAN 24,85	*****	*****	*****	*****	*****	*****	*****
JAN 26,85	JAN 25,85	*****	*****	*****	*****	*****	*****	*****
JAN 27,85	JAN 26,85	*****	0.36	*****	*****	*****	0.090	*****
JAN 28,85	JAN 27,85	0.13	0.17	0.020	<T 0.015	0.030	0.105	0.0661
FEB 1,85	JAN 31,85	0.08	0.51	<T 0.010	0.030	0.130	0.080	0.1047
FEB 4,85	FEB 3,85	0.28	0.32	0.035	<T 0.020	0.115	0.065	0.1202
FEB 6,85	FEB 5,85	*****	*****	*****	*****	*****	*****	*****
FEB 12,85	FEB 11,85	*****	0.16	*****	*****	*****	0.035	0.0245
FEB 13,85	FEB 12,85	<T 0.03	0.10	<T 0.010	<T 0.015	0.050	0.030	0.0234
FEB 14,85	FEB 13,85	<T 0.03	0.13	<T 0.005	0.035	0.045	0.080	0.0759
FEB 15,85	FEB 14,85	<T 0.03	0.10	<T 0.005	<T 0.010	0.045	0.015	0.0186
FEB 16,85	FEB 15,85	*****	*****	*****	*****	*****	*****	0.0331
FEB 17,85	FEB 16,85	0.08	0.33	<T 0.010	0.025	0.095	0.105	0.1023
FEB 18,85	FEB 17,85	*****	0.23	*****	*****	*****	0.110	0.0457
FEB 19,85	FEB 18,85	0.15	0.29	0.025	<T 0.010	0.110	0.160	0.0603
FEB 20,85	FEB 19,85	0.12	0.23	0.015	<T 0.010	0.125	0.085	0.0407
FEB 21,85	FEB 20,85	*****	0.52	*****	*****	*****	0.685	0.0891
FEB 22,85	FEB 21,85	<T 0.04	0.14	<T 0.005	0.060	0.060	0.345	0.0794
FEB 23,85	FEB 22,85	0.13	0.17	<T 0.010	0.065	0.130	0.220	0.0631
FEB 24,85	FEB 23,85	<T 0.01	<T 0.05	<T 0.005	<T 0.010	<T 0.015	0.020	0.0302
FEB 25,85	FEB 24,85	<T 0.09	0.16	<T 0.015	0.050	0.075	0.110	0.0759
FEB 27,85	FEB 26,85	0.18	0.16	0.025	0.025	0.050	0.565	0.0562

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPT:(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
FEB 28,85	FEB 27,85	820 800	820 1000	2	****	2	42535	2	1	****	E
MAR 1,85	FEB 28,85	800 750	****	2	0.7	2	42537	2	1	62	
MAR 2,85	MAR 1,85	750 945	1530	3	6.5	2	42539	2	1	104	Q
MAR 4,85	MAR 3,85	1030 815	****	2	0.9	2	42543	2	1	27	N
MAR 5,85	MAR 4,85	815 820	815 820	2	37.7	2	42545	2	1	40	N
MAR 6,85	MAR 5,85	820 830	820 1500	2	2.0	2	42549	2	1	77	
MAR 8,85	MAR 7,85	830 830	2400 830	3	2.6	2	42551	2	1	112	
MAR 9,85	MAR 8,85	830 845	830 1200	2	0.8	2	42553	2	1	101	
MAR 12,85	MAR 11,85	810 815	200 800	1	14.0	2	42555	2	1	109	
MAR 13,85	MAR 12,85	815 820	815 1800	1	2.3	2	42557	2	1	138	N
MAR 14,85	MAR 13,85	820 820	2300 600	2	0.5	2	42559	2	1	106	
MAR 15,85	MAR 14,85	820 820	2300 300	2	0.7	2	42561	2	1	86	
MAR 17,85	MAR 16,85	830 840	****	2	6.0	2	42563	2	1	81	
MAR 28,85	MAR 27,85	845 820	1530 2030	1	6.2	2	42566	2	1	108	
MAR 29,85	MAR 28,85	820 840	1000 1500	1	20.6	2	42568	2	1	84	
MAR 30,85	MAR 29,85	840 800	840 930	1	0.2	2	42570	2	1	7	E
APR 1,85	MAR 31,85	1040 900	1500 900	3	17.9	2	42572	2	1	49	N
APR 2,85	APR 1,85	900 820	900 820	2	3.6	2	42574	2	1	72	N
APR 3,85	APR 2,85	820 850	820 1800	2	3.1	2	42576	2	1	68	
APR 4,85	APR 3,85	850 830	850 2100	2	3.0	2	42578	2	1	87	
APR 5,85	APR 4,85	830 730	2000 730	3	18.0	2	42580	2	1	94	Q
APR 6,85	APR 5,85	730 840	730 840	3	19.6	2	42582	2	1	105	
APR 7,85	APR 6,85	840 750	840 2000	3	3.7	2	42586	2	1	70	
APR 11,85	APR 10,85	840 730	1200 2400	2	14.4	2	42589	2	1	70	000000
APR 14,85	APR 13,85	910 930	1000 1800	3	3.3	2	42591	2	1	95	
APR 15,85	APR 14,85	930 850	200 400	1	4.7	2	42593	2	1	110	
APR 16,85	APR 15,85	850 850	1100 1500	1	0.7	2	42595	2	1	196	N
APR 18,85	APR 17,85	850 740	200 740	3	13.9	2	42597	2	1	108	
APR 19,85	APR 18,85	740 720	740 1200	3	0.3	2	42599	2	1	478	N
APR 20,85	APR 19,85	720 900	900 1100	1	2.4	1	42601	2	1	84	
APR 21,85	APR 20,85	900 830	900 1000	1	0.6	1	42603	2	1	18	E
APR 28,85	APR 27,85	900 915	400 800	1	1.8	1	42605	2	1	101	N
MAY 6,85	MAY 4,85	800 815	2100 1600	1	24.4	1	42608	2	1	104	
MAY 7,85	MAY 6,85	815 850	2000 400	1	10.4	1	42612	2	1	103	000000
MAY 8,85	MAY 7,85	850 825	1730 1930	1	3.0	1	42614	2	1	89	
MAY 11,85	MAY 10,85	800 900	****	1	0.2	1	42616	2	1	85	E
MAY 12,85	MAY 11,85	900 900	500 600	1	0.2	1	42618	2	1	101	E
MAY 13,85	MAY 12,85	900 830	1800 2000	1	0.4	1	42620	2	1	101	
MAY 16,85	MAY 15,85	800 830	2300 500	1	6.1	1	42622	2	1	101	
MAY 20,85	MAY 19,85	830 900	2100 200	1	5.8	1	42625	2	1	104	C

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM										#08	PAGE : 5			
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L					
FEB 28,85	FEB 27,85	6.0	*****	*****	*****	*****	*****	*****	*****					
MAR 1,85	FEB 28,85	28.0	*****	*****	UG 6.10	*****	0.0223	*****	*****					
MAR 2,85	MAR 1,85	435.0	33.9	4.22	4.22	*****	0.0810	2.40	0.84					
MAR 4,85	MAR 3,85	16.0	*****	*****	UG 5.50	*****	0.0214	*****	*****					
MAR 5,85	MAR 4,85	987.0	15.1	4.52	4.50	*****	0.0477	0.90	0.28					
MAR 6,85	MAR 5,85	99.0	19.3	*****	4.41	*****	0.0545	1.45	0.37					
MAR 8,85	MAR 7,85	187.0	> 100.0	LG 3.71	LG 3.71	*****	UG 0.2230	6.85	UG 3.15					
MAR 9,85	MAR 8,85	52.0	52.8	*****	3.98	*****	0.1280	3.10	1.47					
MAR 12,85	MAR 11,85	986.0	30.2	4.22	4.28	*****	0.0839	2.40	0.60					
MAR 13,85	MAR 12,85	204.0	26.3	4.24	4.30	*****	0.0764	2.10	0.37					
MAR 14,85	MAR 13,85	34.0	*****	*****	4.02	*****	0.1180	*****	*****					
MAR 15,85	MAR 14,85	39.0	22.0	*****	4.36	*****	0.0656	2.20	0.17					
MAR 17,85	MAR 16,85	315.0	33.7	4.31	4.36	*****	0.0756	2.05	1.35					
MAR 28,85	MAR 27,85	430.0	39.7	4.07	4.17	*****	0.0979	3.80	0.68					
MAR 29,85	MAR 28,85	1118.0	14.1	4.46	4.61	*****	0.0437	1.40	0.18					
MAR 30,85	MAR 29,85	1.0	*****	*****	*****	*****	*****	*****	*****					
APR 1,85	MAR 31,85	569.0	20.5	4.33	4.38	*****	0.0604	1.55	0.33					
APR 2,85	APR 1,85	168.0	31.7	4.10	4.21	*****	0.0874	2.50	0.47					
APR 3,85	APR 2,85	137.0	18.4	*****	4.52	*****	0.0548	0.65	0.58					
APR 4,85	APR 3,85	168.0	D 31.9	*****	4.23	*****	0.0971	D 1.75	0.56					
APR 5,85	APR 4,85	1085.0	10.9	*****	4.77	*****	0.0409	0.80	0.15					
APR 6,85	APR 5,85	1327.0	35.5	*****	4.29	*****	0.0916	3.45	0.60					
APR 7,85	APR 6,85	167.0	*****	*****	*****	*****	*****	*****	*****					
APR 11,85	APR 10,85	648.0	13.2	*****	UG 5.28	*****	0.0253	1.35	0.55					
APR 14,85	APR 13,85	202.0	46.4	*****	4.13	*****	0.1080	5.10	0.58					
APR 15,85	APR 14,85	334.0	76.7	*****	3.88	*****	0.1800	6.00	1.29					
APR 16,85	APR 15,85	88.0	UG 95.0	*****	3.75	*****	UG 0.2230	8.20	1.09					
APR 18,85	APR 17,85	970.0	15.7	*****	4.74	*****	0.0409	1.80	0.30					
APR 19,85	APR 18,85	92.0	15.4	*****	UG 6.47	*****	0.0328	2.90	0.32					
APR 20,85	APR 19,85	130.0	12.3	*****	UG 6.34	*****	LG 0.0191	2.05	0.42					
APR 21,85	APR 20,85	7.0	*****	*****	*****	*****	*****	*****	*****					
APR 28,85	APR 27,85	117.0	13.1	*****	4.66	*****	0.0421	1.55	0.15					
MAY 6,85	MAY 4,85	1628.0	25.6	*****	4.43	*****	0.0651	2.85	0.48					
MAY 7,85	MAY 6,85	688.0	17.4	*****	4.51	*****	0.0569	1.85	0.13					
MAY 8,85	MAY 7,85	172.0	15.7	*****	4.59	*****	0.0481	1.85	0.13					
MAY 11,85	MAY 10,85	11.0	*****	*****	*****	*****	*****	*****	*****					
MAY 12,85	MAY 11,85	13.0	*****	*****	*****	*****	*****	*****	*****					
MAY 13,85	MAY 12,85	26.0	*****	*****	4.17	*****	0.1140	*****	*****					
MAY 16,85	MAY 15,85	396.0	> 100.0	*****	3.66	*****	0.2680	9.65	1.61					
MAY 20,85	MAY 19,85	388.0	19.4	*****	UG 5.39	*****	0.0367	2.95	0.61					

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
FEB 28,85	FEB 27,85	*****	*****	*****	*****	*****	*****	*****
MAR 1,85	FEB 28,85	*****	*****	*****	*****	*****	*****	LG 0.0008
MAR 2,85	MAR 1,85	0.41	0.27	0.040	0.130	0.140	0.475	0.0603
MAR 4,85	MAR 3,85	*****	*****	*****	*****	*****	*****	LG 0.0032
MAR 5,85	MAR 4,85	0.10	<T 0.05	<T 0.015	<T 0.015	<T 0.015	0.065	0.0316
MAR 6,85	MAR 5,85	0.12	0.13	0.025	<W 0.005	0.060	0.215	0.0389
MAR 8,85	MAR 7,85	UG 1.42	0.50	0.160	0.130	0.215	1.650	UG 0.1950
MAR 9,85	MAR 8,85	0.44	0.29	0.060	0.070	0.140	*****	0.1047
MAR 12,85	MAR 11,85	0.39	0.16	0.055	0.025	0.075	0.275	0.0525
MAR 13,85	MAR 12,85	0.13	0.13	0.025	0.030	0.045	0.140	0.0501
MAR 14,85	MAR 13,85	*****	*****	*****	*****	*****	*****	0.0955
MAR 15,85	MAR 14,85	*****	0.16	*****	*****	*****	*****	0.0437
MAR 17,85	MAR 16,85	0.91	0.33	0.165	0.035	0.090	0.630	0.0437
MAR 28,85	MAR 27,85	0.28	0.15	0.040	0.040	0.045	0.640	0.0676
MAR 29,85	MAR 28,85	0.13	0.07	<T 0.015	<W 0.005	<T 0.015	0.160	0.0245
MAR 30,85	MAR 29,85	*****	*****	*****	*****	*****	*****	*****
APR 1,85	MAR 31,85	0.11	0.09	<T 0.015	<T 0.020	0.035	0.140	0.0417
APR 2,85	APR 1,85	0.10	0.10	<T 0.010	0.025	0.035	0.240	0.0617
APR 3,85	APR 2,85	0.29	0.17	0.035	<W 0.005	0.035	0.065	0.0302
APR 4,85	APR 3,85	<W 0.01	D 0.09	<W 0.005	<W 0.005	<W 0.005	0.090	0.0589
APR 5,85	APR 4,85	<T 0.03	<T 0.06	<W 0.005	<T 0.005	<W 0.005	0.095	0.0170
APR 6,85	APR 5,85	0.57	0.25	0.060	<T 0.010	0.095	0.380	0.0513
APR 7,85	APR 6,85	*****	*****	*****	*****	*****	*****	*****
APR 11,85	APR 10,85	0.30	0.09	0.050	<T 0.015	<T 0.020	0.615	LG 0.0052
APR 14,85	APR 13,85	0.20	0.12	0.040	0.030	0.030	0.680	0.0741
APR 15,85	APR 14,85	0.32	0.41	0.080	0.055	0.150	0.710	0.1318
APR 16,85	APR 15,85	0.25	0.62	0.080	0.040	0.290	0.510	0.1778
APR 18,85	APR 17,85	0.15	0.08	0.035	0.030	0.040	0.395	0.0182
APR 19,85	APR 18,85	0.65	0.27	0.085	0.165	0.205	0.750	LG 0.0003
APR 20,85	APR 19,85	0.64	0.18	0.075	<T 0.020	0.210	0.630	LG 0.0005
APR 21,85	APR 20,85	*****	*****	*****	*****	*****	*****	*****
APR 28,85	APR 27,85	0.18	0.08	0.025	0.040	0.040	0.100	0.0219
MAY 6,85	MAY 4,85	0.23	0.08	0.040	<T 0.010	<T 0.005	0.590	0.0372
MAY 7,85	MAY 6,85	0.12	0.07	0.020	<T 0.005	<T 0.005	0.140	0.0309
MAY 8,85	MAY 7,85	0.28	0.07	0.025	<T 0.015	<T 0.010	0.115	0.0257
MAY 11,85	MAY 10,85	*****	*****	*****	*****	*****	*****	*****
MAY 12,85	MAY 11,85	*****	*****	*****	*****	*****	*****	*****
MAY 13,85	MAY 12,85	*****	*****	*****	*****	*****	*****	0.0676
MAY 16,85	MAY 15,85	0.49	0.35	0.065	0.065	0.085	0.760	0.2188
MAY 20,85	MAY 19,85	0.85	0.15	0.175	0.105	0.035	0.690	LG 0.0041

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
MAY 21,85	MAY 20,85	900 830	900 1500	1	17.2	1	42627	2	1	96	000000
MAY 26,85	MAY 25,85	900 900	2100 100	1	2.4	1	42629	2	1	100	HM
MAY 27,85	MAY 26,85	900 830	2400 600	1	5.6	1	42631	2	1	105	
MAY 28,85	MAY 27,85	830 830	1100 1400	1	0.4	1	42633	2	1	3	E N
MAY 31,85	MAY 30,85	825 830	1400 1800	1	3.0	1	42635	2	1	98	Q
JUN 1,85	MAY 31,85	830 900	1700 1800	1	9.6	1	42636	2	1	99	C J
JUN 2,85	JUN 1,85	900 820	****	1	0.4	1	42638	2	1	****	E
JUN 5,85	JUN 4,85	840 830	820 830	1	0.2	1	42640	2	1	132	N
JUN 6,85	JUN 5,85	830 820	****	1	0.4	1	42642	2	1	62	
JUN 8,85	JUN 7,85	810 815	1900 200	1	0.4	1	42644	2	1	117	
JUN 13,85	JUN 12,85	830 800	400 600	1	1.0	1	42648	2	1	123	N
JUN 14,85	JUN 13,85	800 800	1000 1500	1	0.4	1	42650	2	1	50	E
JUN 16,85	JUN 15,85	900 900	500 900	1	1.6	1	42652	2	1	107	
JUN 17,85	JUN 16,85	900 820	900 1500	1	8.3	1	42654	2	1	96	
JUN 18,85	JUN 17,85	820 715	1700 2200	1	14.6	1	42655	2	1	101	
JUN 19,85	JUN 18,85	715 730	1730 1830	1	2.2	1	42659	2	1	65	CQ
JUN 20,85	JUN 19,85	730 720	****	1	0.6	1	42661	2	1	2	E N
JUN 21,85	JUN 20,85	720 815	1200 1530	1	3.8	1	42663	2	1	99	
JUN 22,85	JUN 21,85	815 900	500 800	1	0.9	1	42665	2	1	69	
JUN 23,85	JUN 22,85	900 900	1500 1900	1	17.1	1	42667	2	1	73	
JUN 24,85	JUN 23,85	900 850	1930 2100	1	14.3	1	42669	2	1	98	JH
JUN 29,85	JUN 28,85	900 830	100 300	1	0.8	1	42671	2	1	72	E
JUL 2,85	JUL 1,85	900 830	600 800	1	0.4	1	42673	2	1	113	E
JUL 3,85	JUL 2,85	830 900	****	1	0.4	1	42675	2	1	42	E N
JUL 5,85	JUL 4,85	900 900	1600 2000	1	7.8	1	42677	2	1	204	N
JUL 6,85	JUL 5,85	900 730	1500 700	1	3.2	1	42680	2	1	88	E
JUL 7,85	JUL 6,85	730 849	1200 2400	1	7.7	1	42681	2	1	105	
JUL 14,85	JUL 13,85	730 930	2400 600	1	14.0	1	42683	2	1	U 50	G
JUL 15,85	JUL 14,85	930 800	****	1	0.7	1	42685	2	1	22	E N
JUL 16,85	JUL 15,85	800 800	****	1	0.8	1	42687	2	1	25	E N
JUL 17,85	JUL 16,85	800 800	1330 1500	1	4.2	1	42689	2	1	101	JHCM
JUL 22,85	JUL 21,85	720 740	2200 2300	1	1.9	1	42691	2	1	96	
JUL 23,85	JUL 22,85	740 730	1800 2200	1	2.4	1	42693	2	1	131	N
JUL 26,85	JUL 25,85	800 800	300 630	1	19.8	1	42695	2	1	113	
JUL 27,85	JUL 26,85	800 730	1300 1500	1	0.6	1	42699	2	1	28	E N
JUL 29,85	JUL 28,85	800 740	230 730	1	7.4	1	42701	2	1	102	
JUL 30,85	JUL 29,85	740 740	1400 1630	1	18.6	1	42703	2	1	103	
AUG 7,85	AUG 6,85	900 800	1800 2100	1	12.8	1	42706	2	1	107	
AUG 8,85	AUG 7,85	800 1000	1800 1930	1	19.0	1	42708	2	1	U 95	FI
AUG 11,85	AUG 10,85	715 845	1830 2200	1	2.2	1	42712	2	1	99	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM			#08		PAGE : 8				
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 21,85	MAY 20,85	1066.0	11.1	*****	4.83	*****	0.0403	1.25	0.13
MAY 26,85	MAY 25,85	154.0	16.4	4.46	4.49	*****	0.0629	1.05	0.07
MAY 27,85	MAY 26,85	379.0	39.1	4.19	4.23	*****	0.1030	3.55	0.88
MAY 28,85	MAY 27,85	1.0	*****	*****	*****	*****	*****	*****	*****
MAY 31,85	MAY 30,85	190.0	> 100.0	3.68	3.72	*****	0.2420	9.80	1.54
JUN 1,85	MAY 31,85	611.0	28.3	UG 6.48	U 7.23	*****	0.0183	4.50	0.83
JUN 2,85	JUN 1,85	*****	*****	*****	*****	*****	*****	*****	*****
JUN 5,85	JUN 4,85	17.0	*****	*****	4.67	*****	0.0490	*****	*****
JUN 6,85	JUN 5,85	16.0	*****	*****	4.39	*****	0.0724	*****	*****
JUN 8,85	JUN 7,85	30.0	29.5	*****	5.07	*****	0.0308	4.65	1.85
JUN 13,85	JUN 12,85	79.0	26.3	*****	4.28	*****	0.0816	2.90	0.08
JUN 14,85	JUN 13,85	13.0	*****	*****	*****	*****	*****	*****	*****
JUN 16,85	JUN 15,85	110.0	58.9	*****	3.87	*****	0.1500	4.95	0.80
JUN 17,85	JUN 16,85	511.0	30.7	4.15	D 4.23	*****	0.0893	3.20	0.10
JUN 18,85	JUN 17,85	948.0	19.3	4.34	4.52	*****	0.0531	1.65	0.39
JUN 19,85	JUN 18,85	92.0	16.3	*****	UG 6.97	*****	0.0178	2.85	0.51
JUN 20,85	JUN 19,85	1.0	*****	*****	*****	*****	*****	*****	*****
JUN 21,85	JUN 20,85	242.0	17.9	4.28	4.47	*****	0.0600	1.95	LG 0.06
JUN 22,85	JUN 21,85	40.0	> 100.0	*****	3.74	*****	0.2600	11.00	2.27
JUN 23,85	JUN 22,85	807.0	10.8	4.64	4.92	*****	0.0318	1.20	0.12
JUN 24,85	JUN 23,85	900.0	13.6	4.83	UG 5.75	*****	0.0219	2.05	0.43
JUN 29,85	JUN 28,85	37.0	*****	4.46	*****	*****	*****	*****	*****
JUL 2,85	JUL 1,85	29.0	*****	LG 3.33	*****	*****	*****	*****	*****
JUL 3,85	JUL 2,85	11.0	*****	3.67	*****	*****	*****	*****	*****
JUL 5,85	JUL 4,85	1020.0	27.9	4.38	4.47	*****	0.0629	3.45	0.66
JUL 6,85	JUL 5,85	182.0	*****	*****	*****	*****	*****	*****	*****
JUL 7,85	JUL 6,85	523.0	15.8	4.47	4.59	*****	0.0486	1.30	0.29
JUL 14,85	JUL 13,85	450.0	27.8	4.12	D 4.36	*****	0.0717	3.10	0.36
JUL 15,85	JUL 14,85	10.0	*****	*****	*****	*****	*****	*****	*****
JUL 16,85	JUL 15,85	13.0	*****	*****	*****	*****	*****	*****	*****
JUL 17,85	JUL 16,85	273.0	LG 4.8	4.75	UG 5.42	*****	0.0199	LG 0.35	<T 0.03
JUL 22,85	JUL 21,85	117.0	35.4	*****	4.33	*****	0.0810	4.45	0.57
JUL 23,85	JUL 22,85	202.0	*****	UG 4.94	*****	*****	*****	*****	*****
JUL 26,85	JUL 25,85	1445.0	*****	4.38	*****	*****	*****	*****	*****
JUL 27,85	JUL 26,85	11.0	*****	*****	*****	*****	*****	*****	*****
JUL 29,85	JUL 28,85	486.0	29.1	4.18	4.39	*****	0.0659	2.95	0.74
JUL 30,85	JUL 29,85	1230.0	25.7	4.28	4.41	*****	0.0660	3.25	0.45
AUG 7,85	AUG 6,85	880.0	46.1	3.95	4.08	*****	0.1160	4.95	0.66
AUG 8,85	AUG 7,85	1161.0	15.1	4.44	4.68	*****	0.0431	1.70	0.21
AUG 11,85	AUG 10,85	141.0	95.6	3.70	3.71	*****	0.2320	10.05	1.24

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAY 21,85	MAY 20,85	0.08	0.04	<T 0.010	<W 0.005	<W 0.005	0.240	0.0148
MAY 26,85	MAY 25,85	0.09	0.25	0.035	0.090	0.045	0.070	0.0324
MAY 27,85	MAY 26,85	0.11	0.30	0.030	0.035	<T 0.015	1.150	0.0589
MAY 28,85	MAY 27,85	*****	*****	*****	*****	*****	*****	*****
MAY 31,85	MAY 30,85	1.23	0.35	0.120	0.070	0.040	0.515	0.1905
JUN 1,85	MAY 31,85	U 3.38	0.26	U 0.800	UG 0.325	0.070	0.510	U 0.0001
JUN 2,85	JUN 1,85	*****	*****	*****	*****	*****	*****	*****
JUN 5,85	JUN 4,85	*****	*****	*****	*****	*****	0.320	0.0214
JUN 6,85	JUN 5,85	*****	*****	*****	*****	*****	0.350	0.0407
JUN 8,85	JUN 7,85	*****	0.40	*****	*****	*****	*****	0.0085
JUN 13,85	JUN 12,85	0.20	<T 0.03	0.025	0.060	0.080	LG 0.035	0.0525
JUN 14,85	JUN 13,85	*****	*****	*****	*****	*****	*****	*****
JUN 16,85	JUN 15,85	0.45	0.17	0.065	0.115	0.065	0.165	0.1349
JUN 17,85	JUN 16,85	0.06	<W 0.01	<T 0.005	0.025	<T 0.005	0.100	D 0.0589
JUN 18,85	JUN 17,85	0.17	<W 0.01	<T 0.015	0.050	<T 0.005	0.220	0.0302
JUN 19,85	JUN 18,85	UG 1.66	0.09	0.375	UG 0.300	0.320	0.500	LG 0.0001
JUN 20,85	JUN 19,85	*****	*****	*****	*****	*****	*****	*****
JUN 21,85	JUN 20,85	0.27	<W 0.01	0.030	0.160	<T 0.005	<W 0.005	0.0339
JUN 22,85	JUN 21,85	*****	0.49	*****	*****	*****	0.810	0.1820
JUN 23,85	JUN 22,85	0.13	<W 0.01	0.020	0.030	<T 0.010	0.185	0.0120
JUN 24,85	JUN 23,85	0.52	<T 0.03	0.100	0.045	0.095	0.540	LG 0.0018
JUN 29,85	JUN 28,85	*****	*****	*****	*****	*****	*****	*****
JUL 2,85	JUL 1,85	*****	*****	*****	*****	*****	*****	*****
JUL 3,85	JUL 2,85	*****	*****	*****	*****	*****	*****	*****
JUL 5,85	JUL 4,85	0.54	0.17	0.130	0.060	0.030	0.635	0.0339
JUL 6,85	JUL 5,85	*****	*****	*****	*****	*****	*****	*****
JUL 7,85	JUL 6,85	<W 0.01	<T 0.06	<T 0.010	0.035	<T 0.015	0.205	0.0257
JUL 14,85	JUL 13,85	0.13	0.08	0.035	0.055	<T 0.020	0.425	D 0.0437
JUL 15,85	JUL 14,85	*****	*****	*****	*****	*****	*****	*****
JUL 16,85	JUL 15,85	*****	*****	*****	*****	*****	*****	*****
JUL 17,85	JUL 16,85	<W 0.01	<T 0.04	<W 0.005	0.025	<T 0.010	LG 0.025	LG 0.0038
JUL 22,85	JUL 21,85	0.56	0.16	0.135	0.045	0.040	0.625	0.0468
JUL 23,85	JUL 22,85	*****	*****	*****	*****	*****	*****	*****
JUL 26,85	JUL 25,85	*****	*****	*****	*****	*****	*****	*****
JUL 27,85	JUL 26,85	*****	*****	*****	*****	*****	*****	*****
JUL 29,85	JUL 28,85	0.57	0.12	0.110	0.060	<T 0.015	0.660	0.0407
JUL 30,85	JUL 29,85	0.38	<T 0.06	0.070	0.095	<W 0.005	0.680	0.0389
AUG 7,85	AUG 6,85	0.54	0.12	0.100	0.035	0.025	0.410	0.0832
AUG 8,85	AUG 7,85	0.05	<T 0.04	<T 0.015	<T 0.015	<W 0.005	0.405	0.0209
AUG 11,85	AUG 10,85	1.02	0.25	0.160	0.065	0.030	0.625	0.1950

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ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.		PRECIP START/END HR. HR.		SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE	
AUG 14,85	AUG 13,85	730	800	1130	1200	1	3.2	1	42714	2	1	86		
AUG 15,85	AUG 14,85	800	730	600	730	1	2.0	1	42716	2	1	80		
AUG 16,85	AUG 15,85	730	730	730	1430	1	9.7	1	42718	2	1	101		
AUG 19,85	AUG 18,85	800	730	1300	1800	1	17.0	1	42720	2	1	106		
AUG 20,85	AUG 19,85	730	730	400	600	1	2.8	1	42722	2	1	98		HCM
AUG 25,85	AUG 24,85	700	800	400	800	1	3.0	1	42724	2	1	108		
AUG 26,85	AUG 25,85	800	830	800	900	1	0.2	1	42726	2	1	155		N
AUG 27,85	AUG 26,85	830	745	2200	500	1	11.0	1	42728	2	1	100		
AUG 29,85	AUG 28,85	730	730	745	830	1	2.0	1	42731	2	1	83		J
AUG 30,85	AUG 29,85	730	730	1200	500	1	28.9	1	42733	2	1	98		JH
AUG 31,85	AUG 30,85	730	800	730	800	1	****	1	42735	2	1	****	E	
SEP 2,85	SEP 1,85	900	900	2230	130	1	2.3	1	42737	2	1	105		
SEP 3,85	SEP 2,85	900	845	630	845	1	2.2	1	42739	2	1	99		
SEP 4,85	SEP 3,85	845	800	100	400	1	37.8	1	42741	2	1	109		
SEP 5,85	SEP 4,85	800	730	800	1000	1	0.6	1	42745	2	1	33		N
SEP 6,85	SEP 5,85	730	730	1500	1830	1	11.8	1	42747	2	1	102		
SEP 10,85	SEP 9,85	830	830	1830	2400	1	2.6	1	42749	2	1	95	U	F
SEP 21,85	SEP 20,85	800	730	2400	300	1	0.4	1	42754	2	1	105		
SEP 24,85	SEP 23,85	730	800	500	800	1	9.8	1	42758	2	1	103		
SEP 25,85	SEP 24,85	800	830	800	1000	1	1.9	1	42760	2	1	64		
SEP 27,85	SEP 26,85	800	800	930	1930	1	16.0	1	42762	2	1	97		
OCT 1,85	SEP 30,85	800	800	1700	730	1	13.8	1	42764	2	1	101		
OCT 2,85	OCT 1,85	800	830	****	****	1	1.0	1	42768	2	1	42	A	N
OCT 3,85	OCT 2,85	830	800	1230	1430	1	3.4	1	42770	2	1	94		
OCT 5,85	OCT 4,85	840	730	2130	330	1	11.2	1	42772	2	1	99		
OCT 6,85	OCT 5,85	730	910	1500	1700	1	4.3	1	42774	2	1	94	U	FJ
OCT 7,85	OCT 6,85	910	800	1700	800	1	8.0	1	42776	2	1	96	U	FJ
OCT 8,85	OCT 7,85	800	815	****	****	1	0.4	1	42778	2	1	3	U	FJE
OCT 9,85	OCT 8,85	815	815	2000	800	1	4.4	1	42780	2	1	96		
OCT 10,85	OCT 9,85	815	815	300	815	1	4.3	1	42782	2	1	82		
OCT 11,85	OCT 10,85	815	830	815	1230	1	4.3	1	42784	2	1	76		
OCT 13,85	OCT 12,85	910	910	1730	900	1	34.8	1	42786	2	1	97		
OCT 15,85	OCT 14,85	815	815	400	800	1	4.8	1	42790	2	1	100		
OCT 16,85	OCT 15,85	815	805	1030	1330	1	5.0	1	42792	2	1	86		
OCT 19,85	OCT 18,85	800	830	1530	2130	1	5.0	1	42794	2	1	99		
OCT 25,85	OCT 24,85	815	830	1030	1600	1	9.8	1	42798	2	1	96		
OCT 27,85	OCT 26,85	715	800	2200	200	1	2.8	1	42800	2	1	100		
NOV 3,85	NOV 2,85	900	830	2230	100	1	1.4	1	42803	2	1	102		
NOV 4,85	NOV 3,85	830	815	1400	815	1	11.8	1	42805	2	1	102		
NOV 5,85	NOV 4,85	815	815	1100	300	1	9.0	1	42807	2	1	83		HCM

ONTARIO MINISTRY OF THE ENVIRONMENT
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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 14,85	AUG 13,85	177.0	70.5	3.83	3.81	*****	0.1790	7.05	0.65
AUG 15,85	AUG 14,85	103.0	40.8	4.05	4.10	*****	0.1070	4.00	0.62
AUG 16,85	AUG 15,85	630.0	20.9	4.28	4.31	*****	0.0667	2.30	0.21
AUG 19,85	AUG 18,85	1159.0	63.4	3.87	3.89	*****	0.1690	5.85	0.70
AUG 20,85	AUG 19,85	176.0	5.1	4.92	5.15	*****	0.0256	0.40	<T 0.03
AUG 25,85	AUG 24,85	208.0	74.6	3.75	3.78	*****	0.2140	6.05	D 0.91
AUG 26,85	AUG 25,85	20.0	*****	*****	5.16	*****	0.0534	*****	*****
AUG 27,85	AUG 26,85	707.0	45.2	3.97	4.06	*****	0.1360	4.00	0.57
AUG 29,85	AUG 28,85	107.0	> 100.0	4.42	U 8.18	*****	*****	*****	0.27
AUG 30,85	AUG 29,85	1825.0	14.9	4.10	4.72	*****	0.0454	2.40	0.28
AUG 31,85	AUG 30,85	2.0	*****	*****	*****	*****	*****	*****	*****
SEP 2,85	SEP 1,85	156.0	> 100.0	3.71	3.80	*****	0.2400	10.15	1.81
SEP 3,85	SEP 2,85	140.0	75.6	3.77	3.88	*****	0.2060	8.95	1.08
SEP 4,85	SEP 3,85	2648.0	18.1	4.42	4.60	*****	0.0508	2.00	0.25
SEP 5,85	SEP 4,85	13.0	*****	*****	4.49	*****	0.0836	*****	*****
SEP 6,85	SEP 5,85	777.0	6.2	4.80	4.89	*****	0.0320	0.40	0.11
SEP 10,85	SEP 9,85	159.0	15.8	4.41	4.45	*****	0.0647	1.25	0.26
SEP 21,85	SEP 20,85	27.0	*****	*****	3.99	*****	0.1630	*****	*****
SEP 24,85	SEP 23,85	648.0	21.6	4.38	4.48	*****	0.0623	2.20	0.30
SEP 25,85	SEP 24,85	78.0	15.0	*****	4.62	*****	0.0471	1.30	0.18
SEP 27,85	SEP 26,85	1002.0	35.7	4.10	4.14	*****	0.1040	3.30	0.40
OCT 1,85	SEP 30,85	899.0	51.0	3.98	4.02	*****	0.1380	4.65	0.88
OCT 2,85	OCT 1,85	27.0	*****	*****	4.39	*****	0.0773	*****	*****
OCT 3,85	OCT 2,85	206.0	16.3	4.58	4.70	*****	0.0475	1.90	0.30
OCT 5,85	OCT 4,85	714.0	47.1	4.00	4.04	*****	0.1330	3.50	0.81
OCT 6,85	OCT 5,85	261.0	18.7	4.42	4.47	*****	0.0658	1.65	0.21
OCT 7,85	OCT 6,85	495.0	9.2	4.74	4.85	*****	0.0315	0.90	0.12
OCT 8,85	OCT 7,85	1.0	*****	*****	*****	*****	*****	*****	*****
OCT 9,85	OCT 8,85	271.0	56.0	4.02	4.09	*****	0.1180	5.85	0.86
OCT 10,85	OCT 9,85	227.0	44.2	4.08	4.13	*****	0.1050	3.65	D 1.00
OCT 11,85	OCT 10,85	210.0	17.6	4.42	4.51	*****	0.0512	1.55	0.31
OCT 13,85	OCT 12,85	2173.0	21.8	4.29	4.32	*****	0.0669	2.20	0.23
OCT 15,85	OCT 14,85	309.0	12.2	4.51	4.61	*****	0.0425	0.90	0.24
OCT 16,85	OCT 15,85	277.0	11.7	4.57	4.65	*****	0.0396	1.15	0.15
OCT 19,85	OCT 18,85	320.0	17.7	4.44	4.51	*****	0.0527	1.45	0.28
OCT 25,85	OCT 24,85	608.0	29.1	4.20	4.24	*****	0.0798	2.50	0.36
OCT 27,85	OCT 26,85	181.0	8.8	4.86	5.02	*****	0.0283	0.75	0.20
NOV 3,85	NOV 2,85	92.0	16.5	*****	4.55	*****	0.0459	1.30	0.35
NOV 4,85	NOV 3,85	779.0	7.5	UG 4.84	5.01	*****	0.0258	0.55	0.14
NOV 5,85	NOV 4,85	482.0	LG 4.1	UG 5.05	UG 5.22	*****	0.0222	<T 0.15	<T 0.03

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ONTARIO MINISTRY OF THE ENVIRONMENT
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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 14,85	AUG 13,85	0.39	0.12	0.035	0.085	0.090	0.305	0.1549
AUG 15,85	AUG 14,85	0.37	0.17	0.045	0.130	0.115	0.420	0.0794
AUG 16,85	AUG 15,85	0.09	<W 0.01	<T 0.005	<T 0.005	0.025	0.110	0.0490
AUG 19,85	AUG 18,85	0.12	0.14	0.015	0.060	0.025	0.320	0.1288
AUG 20,85	AUG 19,85	0.05	<T 0.03	<T 0.005	0.035	0.035	LG 0.035	0.0071
AUG 25,85	AUG 24,85	0.10	0.23	0.015	0.020	<T 0.015	0.115	0.1660
AUG 26,85	AUG 25,85	*****	*****	*****	*****	*****	*****	0.0069
AUG 27,85	AUG 26,85	0.04	0.07	<T 0.005	0.025	<T 0.005	0.220	0.0871
AUG 29,85	AUG 28,85	*****	*****	*****	U 1.050	*****	<W 0.005	U 0.0000
AUG 30,85	AUG 29,85	D 0.44	0.07	D 0.065	0.065	0.040	0.485	0.0191
AUG 31,85	AUG 30,85	*****	*****	*****	*****	*****	*****	*****
SEP 2,85	SEP 1,85	1.10	0.43	0.145	0.160	0.100	1.270	0.1585
SEP 3,85	SEP 2,85	0.74	0.25	0.085	0.095	0.110	0.865	0.1318
SEP 4,85	SEP 3,85	0.19	0.09	0.040	0.020	0.070	0.255	0.0251
SEP 5,85	SEP 4,85	*****	*****	*****	*****	*****	*****	0.0324
SEP 6,85	SEP 5,85	0.04	<T 0.02	<W 0.005	<T 0.010	<T 0.015	LG 0.020	0.0129
SEP 10,85	SEP 9,85	0.13	<T 0.04	0.015	<T 0.010	0.025	0.150	0.0355
SEP 21,85	SEP 20,85	*****	*****	*****	*****	*****	*****	0.1023
SEP 24,85	SEP 23,85	0.17	0.07	0.025	<T 0.020	0.030	0.335	0.0331
SEP 25,85	SEP 24,85	0.11	<T 0.05	0.020	0.025	0.090	0.055	0.0240
SEP 27,85	SEP 26,85	0.16	0.08	0.020	0.030	<T 0.020	0.175	0.0724
OCT 1,85	SEP 30,85	0.31	0.16	0.045	0.030	0.045	0.635	0.0955
OCT 2,85	OCT 1,85	*****	*****	*****	*****	*****	*****	0.0407
OCT 3,85	OCT 2,85	0.17	<T 0.06	0.030	0.055	<T 0.010	0.430	0.0200
OCT 5,85	OCT 4,85	0.25	0.07	0.030	0.030	<T 0.015	0.290	0.0912
OCT 6,85	OCT 5,85	0.08	<T 0.04	<T 0.010	<T 0.015	<T 0.005	0.060	0.0339
OCT 7,85	OCT 6,85	0.05	0.07	<T 0.010	0.055	0.020	0.135	0.0141
OCT 8,85	OCT 7,85	*****	*****	*****	*****	*****	*****	*****
OCT 9,85	OCT 8,85	0.79	0.15	0.100	0.090	0.065	D 0.690	0.0813
OCT 10,85	OCT 9,85	0.21	0.18	0.020	0.110	0.100	0.785	0.0741
OCT 11,85	OCT 10,85	0.04	<T 0.05	<T 0.005	0.075	0.085	0.240	0.0309
OCT 13,85	OCT 12,85	<T 0.02	<T 0.04	<T 0.005	<T 0.010	0.040	0.125	0.0479
OCT 15,85	OCT 14,85	0.06	<T 0.02	<T 0.005	0.030	0.030	0.100	0.0245
OCT 16,85	OCT 15,85	0.06	<T 0.02	<T 0.005	0.030	<T 0.020	0.120	0.0224
OCT 19,85	OCT 18,85	0.06	0.07	<T 0.010	0.025	0.020	0.155	0.0309
OCT 25,85	OCT 24,85	<W 0.01	0.09	<T 0.015	<T 0.015	0.035	0.150	0.0575
OCT 27,85	OCT 26,85	0.13	<T 0.04	0.045	0.020	<T 0.010	0.085	0.0095
NOV 3,85	NOV 2,85	0.16	0.08	0.030	0.020	0.065	0.105	0.0282
NOV 4,85	NOV 3,85	*****	0.09	0.015	0.020	0.070	0.070	0.0098
NOV 5,85	NOV 4,85	<T 0.01	<T 0.02	<W 0.005	<W 0.005	0.020	<T 0.010	LG 0.0060

ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
NOV 7,85	NOV 6,85	815 815	500 815	1	1.2	1	42809	2	1	67	
NOV 8,85	NOV 7,85	815 815	815 1700	3	10.2	2	42811	2	1	98	Q
NOV 9,85	NOV 8,85	815 830	600 830	2	0.3	2	42813	2	1	182	N
NOV 10,85	NOV 9,85	830 820	830 800	2	11.1	2	42815	2	1	51	
NOV 13,85	NOV 12,85	815 815	1700 200	1	15.2	1	42819	2	1	85	
NOV 14,85	NOV 13,85	815 815	****	1	1.0	1	42823	2	1	6	E N
NOV 15,85	NOV 14,85	815 830	****	3	0.8	1	42825	2	1	117	HM
NOV 17,85	NOV 16,85	810 730	810 730	3	7.1	2	42827	2	1	104	N
NOV 18,85	NOV 17,85	730 815	730 1800	1	1.6	2	42829	2	1	148	
NOV 19,85	NOV 18,85	815 820	1830 330	1	19.2	1	42831	2	1	105	
NOV 20,85	NOV 19,85	820 820	2100 600	1	10.7	1	42833	2	1	107	
NOV 22,85	NOV 21,85	815 815	830 1800	2	0.2	2	42835	2	1	7	E N
NOV 23,85	NOV 22,85	815 715	820 1800	2	10.2	2	42837	2	1	49	NCM
NOV 24,85	NOV 23,85	715 800	200 800	2	1.2	2	42839	2	1	97	
NOV 25,85	NOV 24,85	800 830	800 1400	2	****	2	42841	2	1	****	E
NOV 26,85	NOV 25,85	830 830	2400 600	2	0.2	2	42843	2	1	124	N
DEC 1,85	NOV 30,85	800 845	1200 1800	3	1.5	2	42845	2	1	72	
DEC 2,85	DEC 1,85	845 830	1800 830	3	18.6	2	42847	2	1	91	
DEC 3,85	DEC 2,85	830 830	830 2100	2	1.0	2	42851	2	1	23	N
DEC 5,85	DEC 4,85	830 830	****	2	0.2	2	42853	2	1	62	E
DEC 6,85	DEC 5,85	830 830	****	3	0.9	2	42855	2	1	84	
DEC 7,85	DEC 6,85	830 830	****	3	****	2	42857	2	1	****	E
DEC 8,85	DEC 7,85	830 845	200 845	3	1.3	2	42859	2	1	118	
DEC 9,85	DEC 8,85	845 820	845 1000	3	0.1	2	42861	2	1	327	N
DEC 11,85	DEC 10,85	800 825	900 2100	3	4.8	2	42863	2	1	85	
DEC 12,85	DEC 11,85	825 820	****	2	****	2	42865	2	1	****	E
DEC 13,85	DEC 12,85	820 815	1300	2	1.3	2	42867	2	1	79	
DEC 14,85	DEC 13,85	815 800	815 400	2	0.8	2	42870	2	1	87	M
DEC 15,85	DEC 14,85	800 900	2100 700	2	2.3	*	42872	2	1	82	M
DEC 16,85	DEC 15,85	900 845	1600 845	2	8.7	2	42874	2	1	85	Q M
DEC 17,85	DEC 16,85	845 830	845 600	2	4.7	2	42876	2	1	86	CM
DEC 18,85	DEC 17,85	830 830	****	2	2.2	2	42878	2	1	43	C
DEC 19,85	DEC 18,85	830 820	600 820	2	0.8	2	42880	2	1	81	NM
DEC 20,85	DEC 19,85	820 850	****	2	1.1	2	42882	2	1	80	M
DEC 21,85	DEC 20,85	850 820	****	2	1.0	2	42884	2	1	73	
DEC 22,85	DEC 21,85	820 900	****	2	0.6	2	42886	2	1	75	
DEC 23,85	DEC 22,85	900 740	****	2	4.8	2	42888	2	1	63	A
DEC 24,85	DEC 23,85	740 800	****	2	8.7	2	42890	2	1	76	
DEC 25,85	DEC 24,85	800 900	900 1200	2	1.6	2	42892	2	1	13	U EG
DEC 27,85	DEC 26,85	800 730	800 1200	2	3.4	2	42894	2	1	60	

ONTARIO MINISTRY OF THE ENVIRONMENT
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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 7,85	NOV 6,85	52.0	33.2	*****	4.23	*****	0.0900	2.50	0.75
NOV 8,85	NOV 7,85	647.0	34.8	4.12	4.18	*****	0.0999	2.50	0.63
NOV 9,85	NOV 8,85	35.0	15.7	*****	4.72	*****	0.0459	1.35	0.34
NOV 10,85	NOV 9,85	365.0	19.4	4.43	4.43	*****	0.0628	0.60	0.45
NOV 13,85	NOV 12,85	829.0	16.0	D 4.51	4.57	*****	0.0514	1.30	0.16
NOV 14,85	NOV 13,85	4.0	*****	*****	*****	*****	*****	*****	*****
NOV 15,85	NOV 14,85	60.0	23.8	*****	4.35	*****	0.0690	2.30	0.19
NOV 17,85	NOV 16,85	476.0	27.7	4.28	4.30	*****	0.0766	1.60	0.55
NOV 18,85	NOV 17,85	152.0	28.3	4.32	4.33	*****	0.0736	2.00	0.64
NOV 19,85	NOV 18,85	1301.0	38.0	4.08	4.15	*****	0.1010	2.80	0.58
NOV 20,85	NOV 19,85	735.0	29.5	4.21	4.28	*****	0.0793	2.45	0.49
NOV 22,85	NOV 21,85	1.0	*****	*****	*****	*****	*****	*****	*****
NOV 23,85	NOV 22,85	321.0	LG 3.8	UG 5.21	UG 5.30	*****	0.0224	<T 0.15	<T 0.02
NOV 24,85	NOV 23,85	75.0	32.0	*****	4.25	*****	0.0847	1.55	1.01
NOV 25,85	NOV 24,85	5.0	*****	*****	*****	*****	*****	*****	*****
NOV 26,85	NOV 25,85	16.0	*****	*****	4.87	*****	0.0333	*****	*****
DEC 1,85	NOV 30,85	70.0	> 100.0	*****	LG 3.40	*****	UG 0.4560	7.55	UG 4.45
DEC 2,85	DEC 1,85	1088.0	24.5	4.30	4.31	*****	0.0691	1.50	0.44
DEC 3,85	DEC 2,85	15.0	*****	*****	4.55	*****	0.0512	*****	*****
DEC 5,85	DEC 4,85	8.0	*****	*****	*****	*****	*****	*****	*****
DEC 6,85	DEC 5,85	49.0	> 100.0	*****	LG 3.39	*****	UG 0.5150	UG 12.25	UG 4.40
DEC 7,85	DEC 6,85	3.0	*****	*****	*****	*****	*****	*****	*****
DEC 8,85	DEC 7,85	99.0	> 100.0	LG 3.54	LG 3.53	*****	UG 0.3830	9.70	UG 3.90
DEC 9,85	DEC 8,85	21.0	*****	*****	3.72	*****	UG 0.2550	*****	*****
DEC 11,85	DEC 10,85	264.0	29.3	4.20	4.23	*****	0.0852	1.55	0.59
DEC 12,85	DEC 11,85	2.0	*****	*****	*****	*****	*****	*****	*****
DEC 13,85	DEC 12,85	66.0	44.0	*****	4.18	*****	0.1130	3.15	0.95
DEC 14,85	DEC 13,85	45.0	33.8	*****	4.29	*****	0.0888	1.75	0.86
DEC 15,85	DEC 14,85	121.0	18.4	4.44	4.53	*****	0.0537	0.35	0.57
DEC 16,85	DEC 15,85	475.0	10.4	4.71	4.81	*****	0.0373	0.25	0.25
DEC 17,85	DEC 16,85	260.0	LG 6.1	UG 4.95	5.06	*****	0.0267	<T 0.10	0.11
DEC 18,85	DEC 17,85	62.0	22.6	*****	4.42	*****	0.0636	0.25	0.71
DEC 19,85	DEC 18,85	42.0	12.6	*****	4.71	*****	0.0415	0.30	0.31
DEC 20,85	DEC 19,85	57.0	16.2	*****	4.49	*****	0.0544	0.40	0.44
DEC 21,85	DEC 20,85	47.0	41.5	*****	4.04	*****	0.1160	0.35	1.30
DEC 22,85	DEC 21,85	29.0	*****	*****	4.29	*****	0.0819	*****	*****
DEC 23,85	DEC 22,85	195.0	31.3	4.17	4.23	*****	0.0835	1.80	0.65
DEC 24,85	DEC 23,85	425.0	27.0	4.25	4.32	*****	0.0732	1.15	0.73
DEC 25,85	DEC 24,85	14.0	*****	*****	*****	*****	*****	*****	*****
DEC 27,85	DEC 26,85	132.0	25.5	4.23	4.29	*****	0.0730	0.40	0.71

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM

#08

PAGE : 15

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 7,85	NOV 6,85	0.23	0.25	0.030	0.240	0.200	0.375	0.0589
NOV 8,85	NOV 7,85	0.05	0.11	<T 0.010	<T 0.010	0.025	0.405	0.0661
NOV 9,85	NOV 8,85	*****	0.09	*****	*****	*****	0.305	0.0191
NOV 10,85	NOV 9,85	<T 0.03	<T 0.06	<T 0.010	<W 0.005	0.020	0.055	0.0372
NOV 13,85	NOV 12,85	<T 0.01	<T 0.04	<W 0.005	<T 0.010	0.025	0.090	0.0269
NOV 14,85	NOV 13,85	*****	*****	*****	*****	*****	*****	*****
NOV 15,85	NOV 14,85	0.38	0.11	0.030	0.090	0.170	0.100	0.0447
NOV 17,85	NOV 16,85	<T 0.02	<T 0.06	<T 0.005	<W 0.005	0.025	0.220	0.0501
NOV 18,85	NOV 17,85	0.10	0.11	<T 0.010	0.065	0.080	0.450	0.0468
NOV 19,85	NOV 18,85	0.10	0.36	0.035	0.045	0.215	0.165	0.0708
NOV 20,85	NOV 19,85	0.10	0.23	D 0.035	0.040	0.125	0.265	0.0525
NOV 22,85	NOV 21,85	*****	*****	*****	*****	*****	*****	*****
NOV 23,85	NOV 22,85	<T 0.03	<T 0.05	<W 0.005	<T 0.005	<T 0.010	<W 0.005	LG 0.0050
NOV 24,85	NOV 23,85	0.21	0.12	0.035	0.040	0.040	0.465	0.0562
NOV 25,85	NOV 24,85	*****	*****	*****	*****	*****	*****	*****
NOV 26,85	NOV 25,85	*****	*****	*****	*****	*****	*****	0.0135
DEC 1,85	NOV 30,85	0.23	0.46	0.025	0.070	0.090	0.570	UG 0.3981
DEC 2,85	DEC 1,85	0.06	0.08	<T 0.005	<T 0.005	<T 0.005	0.135	0.0490
DEC 3,85	DEC 2,85	*****	*****	*****	*****	*****	*****	0.0282
DEC 5,85	DEC 4,85	*****	*****	*****	*****	*****	*****	*****
DEC 6,85	DEC 5,85	*****	UG 1.81	*****	*****	*****	1.600	UG 0.4074
DEC 7,85	DEC 6,85	*****	*****	*****	*****	*****	*****	*****
DEC 8,85	DEC 7,85	0.45	0.66	0.055	0.100	0.165	2.190	UG 0.2951
DEC 9,85	DEC 8,85	*****	*****	*****	*****	*****	*****	0.1905
DEC 11,85	DEC 10,85	<T 0.03	<T 0.06	<T 0.005	<T 0.010	0.035	0.135	0.0589
DEC 12,85	DEC 11,85	*****	*****	*****	*****	*****	*****	*****
DEC 13,85	DEC 12,85	0.22	0.27	0.025	0.040	0.080	0.445	0.0661
DEC 14,85	DEC 13,85	0.23	0.17	0.015	<W 0.005	0.075	0.205	0.0513
DEC 15,85	DEC 14,85	0.08	<T 0.04	<T 0.010	<W 0.005	<T 0.010	0.030	0.0295
DEC 16,85	DEC 15,85	<T 0.02	<T 0.04	<W 0.005	<T 0.010	<W 0.005	0.025	0.0155
DEC 17,85	DEC 16,85	<W 0.01	<T 0.02	<W 0.005	<T 0.010	<T 0.010	<T 0.005	0.0087
DEC 18,85	DEC 17,85	0.14	0.14	<T 0.010	<T 0.010	0.045	0.010	0.0380
DEC 19,85	DEC 18,85	<T 0.04	0.11	<T 0.005	<W 0.005	0.040	0.015	0.0195
DEC 20,85	DEC 19,85	<T 0.03	0.17	0.015	<T 0.015	0.090	0.030	0.0324
DEC 21,85	DEC 20,85	*****	0.39	*****	*****	*****	0.055	0.0912
DEC 22,85	DEC 21,85	*****	*****	*****	*****	*****	*****	0.0513
DEC 23,85	DEC 22,85	<T 0.03	0.34	<T 0.010	0.100	0.120	0.300	0.0589
DEC 24,85	DEC 23,85	<T 0.02	0.15	<T 0.010	<T 0.015	0.030	0.315	0.0479
DEC 25,85	DEC 24,85	*****	*****	*****	*****	*****	*****	*****
DEC 27,85	DEC 26,85	<T 0.03	0.17	<T 0.010	<W 0.005	0.025	0.050	0.0513

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM

#08

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.		PRECIP START/END HR. HR.		SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE	
DEC 28,85	DEC 27,85	730	815	730	815	2	9.6	2	42895	2	1	U 73	I	
DEC 29,85	DEC 28,85	815	900	****	****	2	6.6	2	42897	2	1	73		
DEC 30,85	DEC 29,85	900	900	****	****	2	3.5	2	42899	2	1	32		N
DEC 31,85	DEC 30,85	900	800	****	****	2	6.2	2	42901	2	1	46		N
JAN 1,86	DEC 31,85	800	830	****	****	2	2.3	2	42903	2	1	79		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM				#08	PAGE : 17					
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L	
DEC 28,85	DEC 27,85	454.0	8.6	4.79	4.86	*****	0.0306	0.30	0.17	
DEC 29,85	DEC 28,85	312.0	13.8	4.53	4.62	*****	0.0432	0.35	0.39	
DEC 30,85	DEC 29,85	73.0	D 22.6	*****	4.35	*****	0.0656	0.55	0.65	
DEC 31,85	DEC 30,85	186.0	29.4	4.16	4.22	*****	0.0814	0.65	0.91	
JAN 1,86	DEC 31,85	117.0	*****	3.98	*****	*****	*****	*****	*****	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AEROCHEM				#08		PAGE : 18			
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L	
DEC 28,85	DEC 27,85	<T 0.03	<T 0.05	<T 0.005	<T 0.020	0.025	0.050	0.0138	
DEC 29,85	DEC 28,85	0.08	0.14	0.015	<T 0.015	0.030	0.060	0.0240	
DEC 30,85	DEC 29,85	0.14	0.30	0.020	0.035	0.130	0.100	0.0447	
DEC 31,85	DEC 30,85	0.18	0.15	0.025	<T 0.015	0.080	0.120	0.0603	
JAN 1,86	DEC 31,85	*****	*****	*****	*****	*****	*****	*****	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM

#07

PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JAN 2,85	JAN 1,85	900 900	1000 1200	2	11.4	2	41538	2	1	69	C
JAN 28,85	JAN 27,85	700 700	1400 1700	2	3.0	2	41540	2	1	60	
FEB 1,85	JAN 31,85	740 700	1400 1530	2	1.8	2	41541	2	1	78	
FEB 4,85	FEB 3,85	745 715	1830 2000	2	2.6	2	41542	2	1	70	
FEB 13,85	FEB 12,85	715 715	800 715	3	17.0	2	41545	2	1	87	
FEB 14,85	FEB 13,85	715 715	1600 1800	3	8.5	2	41548	2	1	82	
FEB 15,85	FEB 14,85	715 700	1800 1900	2	2.6	2	41549	2	1	61	C
FEB 16,85	FEB 15,85	900 900	1000 1200	2	0.1	2	41550	2	1	****	E
FEB 17,85	FEB 16,85	900 700	2000 2100	2	5.6	2	41551	2	1	64	C
FEB 18,85	FEB 17,85	700 715	1400 1600	2	****	2	41552	2	1	****	QD
FEB 19,85	FEB 18,85	715 715	2000 2300	2	19.6	2	41553	2	1	36	H
FEB 20,85	FEB 19,85	730 730	****	2	2.3	2	41554	2	1	63	N
FEB 22,85	FEB 21,85	700 700	1400 1600	1	10.8	2	41555	2	1	100	
FEB 23,85	FEB 22,85	700 730	630 730	1	1.4	2	41556	2	1	133	N
FEB 24,85	FEB 23,85	730 730	2200 2400	1	23.0	2	41557	2	1	102	
FEB 25,85	FEB 24,85	730 745	1600 1730	1	2.8	2	41560	2	1	115	BC
FEB 27,85	FEB 26,85	730 715	2100 2300	2	3.4	2	41561	2	1	94	000000
MAR 1,85	FEB 28,85	700 715	1000 1100	2	0.6	2	41563	2	1	98	
MAR 2,85	MAR 1,85	715 700	1600 1730	2	6.8	2	41564	2	1	98	C
MAR 5,85	MAR 4,85	700 730	730 1500	3	21.4	2	41565	2	1	48	NHM
MAR 6,85	MAR 5,85	730 800	1400 1600	2	0.8	2	41566	2	1	83	
MAR 8,85	MAR 7,85	730 730	500 600	2	0.8	2	41568	2	1	97	C
MAR 12,85	MAR 11,85	730 800	900 1300	1	17.4	2	41569	2	1	107	
MAR 13,85	MAR 12,85	800 730	800 900	3	2.6	2	41572	2	1	119	
MAR 14,85	MAR 13,85	730 730	400 500	2	0.4	2	41573	2	1	132	N
MAR 17,85	MAR 16,85	800 800	100 300	2	5.8	2	41575	2	1	68	
MAR 28,85	MAR 27,85	730 730	1600 2000	1	8.0	2	41577	2	1	106	C
MAR 29,85	MAR 28,85	730 730	1000 1400	1	18.0	2	41578	2	1	105	M
APR 1,85	MAR 31,85	800 730	500 730	3	17.2	2	41580	2	1	53	C
APR 2,85	APR 1,85	730 730	530 730	2	3.8	2	41581	2	1	60	
APR 3,85	APR 2,85	730 730	500 630	2	2.8	2	41582	2	1	54	
APR 4,85	APR 3,85	730 900	1200 1500	3	4.2	2	41583	2	1	101	
APR 5,85	APR 4,85	900 900	1900 2100	3	18.0	2	41584	2	1	66	
APR 6,85	APR 5,85	900 900	1200 1500	3	19.8	2	41585	2	1	106	C
APR 7,85	APR 6,85	900 800	1700 1900	3	2.8	2	41588	2	1	48	N
APR 11,85	APR 10,85	730 730	****	2	13.4	2	41589	2	1	69	
APR 14,85	APR 13,85	700 730	900 100	2	3.2	2	41590	2	1	95	
APR 15,85	APR 14,85	730 730	400 600	1	5.2	2	41591	2	1	105	
APR 18,85	APR 17,85	730 730	530 730	3	22.4	2	41593	2	1	86	000000
APR 19,85	APR 18,85	730 730	730 800	1	0.8	2	41594	2	1	200	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM

#07

PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 2,85	JAN 1,85	509.0	12.7	4.50	4.65	0.0442	0.0433	1.05	0.16
JAN 28,85	JAN 27,85	117.0	28.6	*****	4.24	*****	0.0754	0.70	0.98
FEB 1,85	JAN 31,85	90.0	34.0	*****	4.20	*****	0.0870	0.60	1.22
FEB 4,85	FEB 3,85	117.0	50.0	*****	3.97	*****	0.1260	0.60	1.65
FEB 13,85	FEB 12,85	955.0	8.6	4.71	4.85	*****	0.0334	0.55	0.13
FEB 14,85	FEB 13,85	448.0	35.4	*****	4.07	*****	0.0947	1.50	0.79
FEB 15,85	FEB 14,85	102.0	LG 5.8	*****	B 6.62	*****	LG 0.0187	0.40	0.18
FEB 16,85	FEB 15,85	*****	*****	*****	*****	*****	*****	*****	*****
FEB 17,85	FEB 16,85	230.0	41.2	*****	4.10	*****	0.0970	0.70	1.62
FEB 18,85	FEB 17,85	62.0	13.5	*****	B 6.55	*****	0.0206	0.90	0.69
FEB 19,85	FEB 18,85	455.0	33.7	*****	4.15	*****	0.0881	0.80	1.05
FEB 20,85	FEB 19,85	94.0	20.6	*****	4.39	*****	0.0581	0.80	0.57
FEB 22,85	FEB 21,85	697.0	38.6	*****	4.09	*****	0.1050	2.20	0.84
FEB 23,85	FEB 22,85	120.0	38.9	*****	4.11	*****	0.0971	3.00	0.74
FEB 24,85	FEB 23,85	1507.0	16.0	*****	4.43	*****	0.0536	1.00	0.20
FEB 25,85	FEB 24,85	207.0	34.2	*****	4.25	*****	0.0898	3.10	0.50
FEB 27,85	FEB 26,85	205.0	27.4	*****	4.39	*****	0.0642	2.00	0.88
MAR 1,85	FEB 28,85	38.0	35.3	*****	UG 7.13	*****	LG 0.0182	2.35	1.59
MAR 2,85	MAR 1,85	431.0	28.4	*****	4.35	*****	0.0707	2.45	0.77
MAR 5,85	MAR 4,85	664.0	11.8	*****	4.66	*****	0.0390	0.70	0.31
MAR 6,85	MAR 5,85	43.0	12.5	*****	5.12	*****	0.0281	1.30	0.43
MAR 8,85	MAR 7,85	50.0	> 100.0	*****	3.74	*****	UG 0.2360	9.40	UG 3.98
MAR 12,85	MAR 11,85	1204.0	32.5	*****	4.24	*****	0.0820	2.45	0.75
MAR 13,85	MAR 12,85	199.0	17.7	*****	4.66	*****	0.0449	2.00	0.38
MAR 14,85	MAR 13,85	34.0	*****	*****	4.26	*****	0.0791	*****	*****
MAR 17,85	MAR 16,85	255.0	29.2	*****	4.63	*****	0.0599	2.05	1.28
MAR 28,85	MAR 27,85	545.0	34.6	*****	4.28	*****	0.0832	3.40	0.61
MAR 29,85	MAR 28,85	1221.0	14.5	*****	4.64	*****	0.0424	1.45	0.18
APR 1,85	MAR 31,85	594.0	18.1	*****	4.50	*****	0.0521	1.45	0.28
APR 2,85	APR 1,85	148.0	26.2	*****	4.38	*****	0.0804	2.15	0.52
APR 3,85	APR 2,85	98.0	12.0	*****	5.10	*****	0.0411	0.50	0.63
APR 4,85	APR 3,85	272.0	20.2	*****	D 4.47	*****	0.0638	1.35	0.49
APR 5,85	APR 4,85	770.0	9.8	*****	4.92	*****	0.0429	0.90	0.22
APR 6,85	APR 5,85	1348.0	32.9	*****	4.31	*****	0.0868	3.40	0.57
APR 7,85	APR 6,85	87.0	8.7	*****	UG 5.36	*****	0.0245	1.50	0.10
APR 11,85	APR 10,85	596.0	13.7	*****	UG 5.58	*****	0.0218	1.65	0.60
APR 14,85	APR 13,85	196.0	64.1	*****	3.96	*****	0.1510	7.30	0.53
APR 15,85	APR 14,85	351.0	77.3	*****	3.89	*****	0.1770	6.15	1.36
APR 18,85	APR 17,85	1239.0	14.7	*****	4.77	*****	0.0412	1.80	0.28
APR 19,85	APR 18,85	103.0	20.6	*****	UG 6.99	*****	LG 0.0184	3.95	0.48

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM		#07		PAGE : 3					
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L	
JAN 2,85	JAN 1,85	0.08	0.05	<W 0.005	0.020	0.030	0.150	0.0224	
JAN 28,85	JAN 27,85	0.06	0.21	<T 0.010	0.065	0.060	0.300	0.0575	
FEB 1,85	JAN 31,85	0.17	0.57	0.020	0.065	0.150	0.440	0.0631	
FEB 4,85	FEB 3,85	0.22	0.32	0.025	0.045	0.130	0.115	0.1072	
FEB 13,85	FEB 12,85	<W 0.01	0.09	<T 0.005	D 0.040	0.085	0.055	0.0141	
FEB 14,85	FEB 13,85	0.11	0.13	<W 0.005	<W 0.005	0.040	0.105	0.0851	
FEB 15,85	FEB 14,85	0.08	0.18	0.010	0.110	0.095	D 0.520	B 0.0002	
FEB 16,85	FEB 15,85	*****	*****	*****	*****	*****	*****	*****	
FEB 17,85	FEB 16,85	0.16	0.29	0.025	0.050	0.070	D 0.690	0.0794	
FEB 18,85	FEB 17,85	0.27	0.32	0.045	0.225	0.315	D 1.100	B 0.0003	
FEB 19,85	FEB 18,85	0.26	0.27	0.025	<T 0.005	0.215	0.205	0.0708	
FEB 20,85	FEB 19,85	0.17	0.23	0.030	0.050	0.285	0.125	0.0407	
FEB 22,85	FEB 21,85	0.07	0.16	<T 0.010	0.035	0.065	0.410	0.0813	
FEB 23,85	FEB 22,85	0.30	0.30	0.020	0.135	0.220	0.320	0.0776	
FEB 24,85	FEB 23,85	D 0.05	<T 0.05	<W 0.005	<T 0.005	0.055	0.015	0.0372	
FEB 25,85	FEB 24,85	0.41	0.20	0.085	0.100	0.120	0.020	0.0562	
FEB 27,85	FEB 26,85	0.39	0.16	0.070	0.045	0.165	0.615	0.0407	
MAR 1,85	FEB 28,85	*****	0.89	*****	*****	*****	*****	LG 0.0001	
MAR 2,85	MAR 1,85	0.43	0.34	0.065	<T 0.080	0.215	0.520	0.0447	
MAR 5,85	MAR 4,85	0.11	0.08	<T 0.015	<T 0.005	U 0.345	0.170	0.0219	
MAR 6,85	MAR 5,85	*****	0.20	*****	*****	*****	*****	0.0076	
MAR 8,85	MAR 7,85	*****	0.81	*****	*****	*****	UG 2.300	0.1820	
MAR 12,85	MAR 11,85	0.40	0.21	0.055	D 0.050	0.095	0.305	0.0575	
MAR 13,85	MAR 12,85	0.06	0.10	<T 0.010	0.055	0.035	0.620	0.0219	
MAR 14,85	MAR 13,85	*****	*****	*****	*****	*****	*****	0.0550	
MAR 17,85	MAR 16,85	0.97	0.31	0.175	0.045	0.090	0.690	0.0234	
MAR 28,85	MAR 27,85	0.18	0.12	0.025	0.045	0.040	0.605	0.0525	
MAR 29,85	MAR 28,85	<W 0.01	<T 0.05	<T 0.010	<T 0.020	<T 0.015	0.120	0.0229	
APR 1,85	MAR 31,85	<T 0.01	<T 0.05	<T 0.010	<T 0.020	<T 0.015	0.120	0.0316	
APR 2,85	APR 1,85	<W 0.01	0.07	<T 0.010	0.035	<T 0.020	D 0.455	0.0417	
APR 3,85	APR 2,85	0.20	0.14	0.050	0.025	0.050	D 0.460	0.0079	
APR 4,85	APR 3,85	<W 0.01	0.07	<T 0.005	<T 0.020	<T 0.010	0.320	D 0.0339	
APR 5,85	APR 4,85	<T 0.01	<T 0.06	<T 0.010	<T 0.015	<T 0.020	0.250	0.0120	
APR 6,85	APR 5,85	0.28	0.24	0.060	0.035	0.105	0.430	0.0490	
APR 7,85	APR 6,85	0.09	<T 0.05	0.025	0.050	0.035	0.360	LG 0.0044	
APR 11,85	APR 10,85	0.40	0.11	0.070	<T 0.020	0.025	0.730	LG 0.0026	
APR 14,85	APR 13,85	0.17	0.13	0.040	0.045	0.035	0.750	0.1096	
APR 15,85	APR 14,85	0.38	0.49	0.075	0.105	0.185	0.790	0.1288	
APR 18,85	APR 17,85	0.22	<T 0.06	0.020	<T 0.015	<T 0.005	0.395	0.0170	
APR 19,85	APR 18,85	1.02	0.35	0.110	0.290	0.195	1.150	LG 0.0001	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
APR 21,85	APR 20,85	730 800	900 1000	1	0.8	2	41595	2	1	286	DC 000000
APR 28,85	APR 27,85	730 800	500 530	1	1.2	2	41597	2	1	130	A N
MAY 5,85	MAY 4,85	730 800	1800 2200	1	7.6	1	41598	2	1	102	
MAY 6,85	MAY 5,85	800 730	800 1200	1	17.4	1	41599	2	1	99	
MAY 7,85	MAY 6,85	730 730	1700 1800	1	10.6	1	41602	2	1	102	
MAY 12,85	MAY 7,85	730 800	1700 2000	1	4.8	1	41603	2	1	95	C 000000
MAY 13,85	MAY 12,85	800 700	1730 1800	1	1.2	1	41604	2	1	80	
MAY 16,85	MAY 15,85	730 800	450 530	1	6.4	1	41605	2	1	102	
MAY 20,85	MAY 19,85	730 800	600 800	1	6.6	1	41607	2	1	96	
MAY 21,85	MAY 20,85	800 745	800 1130	1	17.6	1	41608	2	1	100	
MAY 26,85	MAY 25,85	800 800	2100 2200	1	3.6	1	41611	2	1	81	HC
MAY 27,85	MAY 26,85	800 730	800 1100	1	6.0	1	41612	2	1	94	
MAY 31,85	MAY 30,85	730 730	1400 1530	1	3.4	1	41614	2	1	99	
JUN 1,85	MAY 31,85	730 730	1000 1100	1	12.0	1	41615	2	1	U 47	CG
JUN 6,85	JUN 5,85	730 800	900 1000	1	0.9	1	41616	2	1	48	N
JUN 13,85	JUN 12,85	730 730	430 530	1	4.2	1	41617	2	1	92	
JUN 17,85	JUN 16,85	700 800	845 1030	1	7.2	1	41618	2	1	121	N
JUN 18,85	JUN 17,85	800 730	1700 1850	1	17.0	1	41619	2	1	U 100	G
JUN 19,85	JUN 18,85	730 730	1800 1900	1	3.2	1	41620	2	1	98	CQ
JUN 20,85	JUN 19,85	730 730	1100 1130	1	0.2	1	41621	2	1	****	E
JUN 21,85	JUN 20,85	730 730	1300 1430	3	11.4	1	41622	2	1	106	
JUN 22,85	JUN 21,85	730 830	530 600	1	0.8	1	41623	2	1	64	
JUN 23,85	JUN 22,85	830 900	1520 1620	1	22.8	1	41624	2	1	104	
JUN 24,85	JUN 23,85	900 730	1900 2000	1	12.0	1	41627	2	1	99	C
JUN 30,85	JUN 28,85	730 830	200 300	1	1.4	1	41629	2	1	79	JH HMY2
JUL 3,85	JUL 2,85	730 730	1500 1530	1	0.4	1	41630	2	1	****	E
JUL 5,85	JUL 4,85	730 730	1720 1800	1	0.8	1	41631	2	1	****	E
JUL 6,85	JUL 5,85	730 730	500 600	1	14.2	1	41632	2	1	89	
JUL 7,85	JUL 6,85	730 830	1400 1530	1	14.0	1	41633	2	1	103	
JUL 14,85	JUL 13,85	800 800	530 600	1	11.8	1	41635	2	1	99	
JUL 17,85	JUL 16,85	730 1330	1000 1600	1	2.9	1	41636	2	1	83	
JUL 22,85	JUL 21,85	730 730	1900 1930	1	3.8	1	41637	2	1	94	
JUL 23,85	JUL 22,85	730 730	1800 1900	1	9.0	1	41638	2	1	103	HCM
JUL 26,85	JUL 25,85	730 730	1500 1600	1	26.8	1	41639	2	1	104	
JUL 29,85	JUL 28,85	700 730	900 1000	1	7.8	1	41642	2	1	92	
JUL 30,85	JUL 29,85	730 730	1600 1630	1	14.2	1	41643	2	1	100	
AUG 7,85	AUG 6,85	730 730	1700 1800	1	8.2	1	41645	2	1	97	
AUG 14,85	AUG 13,85	730 730	1200 1220	1	4.0	1	41647	2	1	86	
AUG 15,85	AUG 14,85	730 730	630 730	1	2.0	1	41648	2	1	92	
AUG 16,85	AUG 15,85	730 730	730 1130	1	9.8	1	41649	2	1	96	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 21,85	APR 20,85	147.0	16.7	*****	UG 6.79	*****	0.0219	2.85	0.54
APR 28,85	APR 27,85	100.0	13.5	*****	4.67	*****	0.0448	1.75	0.12
MAY 5,85	MAY 4,85	499.0	35.9	*****	4.37	*****	0.0738	D 4.00	0.91
MAY 6,85	MAY 5,85	1115.0	21.6	*****	4.49	*****	0.0582	2.45	0.25
MAY 7,85	MAY 6,85	699.0	14.7	*****	4.61	*****	0.0485	1.60	0.10
MAY 12,85	MAY 7,85	293.0	21.5	*****	UG 5.86	*****	0.0213	3.85	0.59
MAY 13,85	MAY 12,85	62.0	56.0	*****	4.38	*****	0.0768	9.25	1.26
MAY 16,85	MAY 15,85	419.0	> 100.0	*****	3.71	*****	0.2460	9.10	1.32
MAY 20,85	MAY 19,85	409.0	19.6	*****	5.06	*****	0.0358	2.80	0.57
MAY 21,85	MAY 20,85	1137.0	11.2	*****	4.84	*****	0.0367	1.30	0.16
MAY 26,85	MAY 25,85	189.0	6.6	4.62	4.92	*****	0.0335	0.95	0.08
MAY 27,85	MAY 26,85	362.0	27.4	4.27	4.43	*****	0.0679	3.00	0.66
MAY 31,85	MAY 30,85	216.0	> 100.0	3.71	3.68	*****	0.2240	8.95	1.43
JUN 1,85	MAY 31,85	362.0	24.1	*****	U 7.04	*****	0.0206	4.40	0.70
JUN 6,85	JUN 5,85	28.0	26.5	*****	4.61	*****	0.0542	4.75	0.69
JUN 13,85	JUN 12,85	248.0	29.4	4.38	4.50	*****	0.0674	3.95	0.57
JUN 17,85	JUN 16,85	560.0	36.1	4.08	4.19	*****	0.1030	3.45	0.34
JUN 18,85	JUN 17,85	1095.0	16.6	4.42	4.63	*****	0.0464	1.35	0.29
JUN 19,85	JUN 18,85	202.0	18.5	UG 6.05	UG 6.82	*****	0.0201	2.50	0.41
JUN 20,85	JUN 19,85	*****	*****	*****	*****	*****	*****	*****	*****
JUN 21,85	JUN 20,85	778.0	11.0	4.46	4.75	*****	0.0425	1.15	<T 0.04
JUN 22,85	JUN 21,85	33.0	> 100.0	*****	3.72	*****	UG 0.2910	A 14.60	A 2.73
JUN 23,85	JUN 22,85	1525.0	18.9	4.50	4.77	*****	0.0422	2.60	0.30
JUN 24,85	JUN 23,85	762.0	15.4	4.72	UG 5.60	*****	0.0271	2.55	0.49
JUN 30,85	JUN 28,85	71.0	10.9	*****	4.70	*****	0.0427	1.05	0.09
JUL 3,85	JUL 2,85	*****	*****	*****	*****	*****	*****	*****	*****
JUL 5,85	JUL 4,85	*****	*****	*****	*****	*****	*****	*****	*****
JUL 6,85	JUL 5,85	815.0	51.6	3.99	4.10	*****	0.1200	6.60	0.82
JUL 7,85	JUL 6,85	929.0	20.5	4.39	4.53	*****	0.0559	1.75	0.37
JUL 14,85	JUL 13,85	752.0	32.6	4.20	4.32	*****	0.0802	3.75	0.46
JUL 17,85	JUL 16,85	156.0	9.9	4.63	4.93	*****	0.0320	0.75	0.15
JUL 22,85	JUL 21,85	231.0	27.7	4.27	4.40	*****	0.0665	3.55	0.43
JUL 23,85	JUL 22,85	595.0	LG 3.2	UG 5.06	UG 5.44	*****	0.0178	<T 0.15	<W 0.01
JUL 26,85	JUL 25,85	1787.0	20.8	4.38	4.47	*****	0.0611	D 2.50	0.24
JUL 29,85	JUL 28,85	461.0	30.2	4.32	4.46	*****	0.0678	3.30	0.84
JUL 30,85	JUL 29,85	914.0	21.4	4.36	4.53	*****	0.0559	2.80	0.38
AUG 7,85	AUG 6,85	512.0	55.0	3.84	4.01	*****	0.1450	6.40	0.90
AUG 14,85	AUG 13,85	221.0	97.1	3.72	3.69	*****	0.2380	10.00	1.07
AUG 15,85	AUG 14,85	119.0	35.0	4.10	4.16	*****	0.0944	3.70	0.54
AUG 16,85	AUG 15,85	609.0	21.2	4.32	4.40	*****	0.0644	1.90	0.17

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 21,85	APR 20,85	0.85	0.28	0.090	0.160	0.215	0.905	LG 0.0002
APR 28,85	APR 27,85	0.30	0.12	0.025	0.080	<T 0.015	0.120	0.0214
MAY 5,85	MAY 4,85	0.52	0.16	0.105	0.055	<T 0.010	0.960	0.0427
MAY 6,85	MAY 5,85	0.10	0.10	<T 0.015	<T 0.015	<T 0.010	0.420	0.0324
MAY 7,85	MAY 6,85	0.06	0.07	<T 0.005	<T 0.020	<T 0.010	0.150	0.0245
MAY 12,85	MAY 7,85	1.13	0.18	0.235	0.060	0.060	0.620	LG 0.0014
MAY 13,85	MAY 12,85	*****	0.49	*****	*****	*****	UG 2.000	0.0417
MAY 16,85	MAY 15,85	0.40	0.32	0.075	0.070	0.080	0.650	0.1950
MAY 20,85	MAY 19,85	*****	0.12	*****	*****	*****	0.650	0.0087
MAY 21,85	MAY 20,85	*****	0.05	*****	*****	*****	0.260	0.0145
MAY 26,85	MAY 25,85	0.15	0.11	0.020	0.090	0.070	0.120	0.0120
MAY 27,85	MAY 26,85	0.12	0.08	<T 0.015	0.040	<T 0.015	0.905	0.0372
MAY 31,85	MAY 30,85	1.14	0.29	0.130	0.080	0.040	0.485	0.2089
JUN 1,85	MAY 31,85	U 5.83	0.24	U 1.435	UG 0.420	0.125	*****	U 0.0001
JUN 6,85	JUN 5,85	*****	0.77	*****	*****	*****	*****	0.0245
JUN 13,85	JUN 12,85	0.95	0.13	0.150	0.095	0.055	0.375	0.0316
JUN 17,85	JUN 16,85	0.10	<T 0.03	<T 0.010	0.025	<W 0.005	0.140	0.0646
JUN 18,85	JUN 17,85	0.18	<T 0.03	<T 0.015	0.040	<T 0.005	0.165	0.0234
JUN 19,85	JUN 18,85	1.36	0.10	0.315	B 0.305	0.275	0.420	LG 0.0002
JUN 20,85	JUN 19,85	*****	*****	*****	*****	*****	*****	*****
JUN 21,85	JUN 20,85	0.09	<T 0.04	<T 0.010	0.110	<W 0.005	<T 0.010	0.0178
JUN 22,85	JUN 21,85	*****	0.68	*****	*****	*****	1.700	0.1905
JUN 23,85	JUN 22,85	0.77	0.08	0.075	0.040	<T 0.015	0.195	0.0170
JUN 24,85	JUN 23,85	0.67	0.08	0.125	0.135	0.100	0.630	LG 0.0025
JUN 30,85	JUN 28,85	0.17	0.22	0.050	0.085	0.170	LG 0.020	0.0200
JUL 3,85	JUL 2,85	*****	*****	*****	*****	*****	*****	*****
JUL 5,85	JUL 4,85	*****	*****	*****	*****	*****	*****	*****
JUL 6,85	JUL 5,85	0.69	0.19	0.115	0.110	0.060	0.825	0.0794
JUL 7,85	JUL 6,85	0.12	0.07	0.030	0.025	<T 0.010	0.310	0.0295
JUL 14,85	JUL 13,85	0.27	0.12	0.065	0.080	0.055	0.520	0.0479
JUL 17,85	JUL 16,85	0.13	0.07	0.030	0.040	0.045	0.140	0.0117
JUL 22,85	JUL 21,85	0.54	0.12	0.110	0.065	0.025	0.555	0.0398
JUL 23,85	JUL 22,85	0.05	<T 0.04	<T 0.010	0.040	0.030	LG 0.015	LG 0.0036
JUL 26,85	JUL 25,85	0.46	<T 0.06	0.055	0.025	<T 0.020	0.240	0.0339
JUL 29,85	JUL 28,85	0.54	0.15	0.125	0.055	0.025	0.735	0.0347
JUL 30,85	JUL 29,85	0.21	<T 0.03	0.050	<T 0.015	<T 0.010	0.600	0.0295
AUG 7,85	AUG 6,85	0.96	0.21	0.165	0.045	0.055	0.410	0.0977
AUG 14,85	AUG 13,85	0.78	0.24	0.135	0.080	0.095	0.520	0.2042
AUG 15,85	AUG 14,85	0.47	0.45	0.050	0.095	0.105	0.365	0.0692
AUG 16,85	AUG 15,85	0.06	<T 0.05	<T 0.005	<T 0.015	<T 0.010	0.090	0.0398

ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
AUG 18,85	AUG 17,85	800 730	1300 1400	1	20.8	1	41650	2	1	99	
AUG 20,85	AUG 19,85	730 730	300 330	1	2.0	1	41651	2	1	99	
AUG 24,85	AUG 23,85	730 800	700 800	1	0.8	1	41654	2	1	****	E
AUG 25,85	AUG 24,85	800 830	830 830	1	4.6	1	41655	2	1	108	
AUG 27,85	AUG 26,85	730 730	800 1000	1	22.2	1	41657	2	1	98	
AUG 28,85	AUG 27,85	730 740	600 735	1	2.0	1	41660	2	1	86	
AUG 30,85	AUG 29,85	730 730	1400 1800	1	30.5	1	41661	2	1	101	
SEP 2,85	SEP 1,85	800 800	1700 1800	1	3.6	1	41662	2	1	95	B
SEP 3,85	SEP 2,85	800 730	600 730	1	1.8	1	41663	2	1	77	
SEP 4,85	SEP 3,85	730 730	430 630	1	20.2	1	41664	2	1	103	
SEP 6,85	SEP 5,85	730 730	1400 1600	1	14.0	1	41667	2	1	100	
SEP 9,85	SEP 8,85	800 730	1300 1400	1	3.8	1	41668	2	1	98	
SEP 10,85	SEP 9,85	730 730	1400 1530	1	4.0	1	41669	2	1	96	
SEP 24,85	SEP 23,85	730 730	530 730	1	10.8	1	41671	2	1	102	
SEP 25,85	SEP 24,85	730 730	730 830	1	1.2	1	41672	2	1	52	
SEP 27,85	SEP 26,85	730 900	900 1100	1	13.6	1	41673	2	1	101	
OCT 1,85	SEP 30,85	730 730	1430 1730	1	15.4	1	41674	2	1	100	
OCT 3,85	OCT 2,85	730 730	1030 100	1	3.8	1	41676	2	1	86	
OCT 5,85	OCT 4,85	730 800	2200 2300	1	12.0	1	41677	2	1	87	
OCT 7,85	OCT 6,85	800 800	530 800	1	15.0	1	41678	2	1	99	
OCT 10,85	OCT 9,85	800 800	900 1200	1	11.2	1	41679	2	1	99	
OCT 13,85	OCT 12,85	830 900	1600 1700	1	32.0	1	41680	2	1	103	
OCT 15,85	OCT 14,85	800 800	600 730	1	4.4	1	41683	2	1	101	
OCT 16,85	OCT 15,85	800 800	1100 1300	1	4.6	1	41684	2	1	96	
OCT 19,85	OCT 18,85	730 800	1400 1530	1	6.0	1	41686	2	1	99	
OCT 25,85	OCT 24,85	730 730	1500 1600	1	8.8	1	41688	2	1	105	M
OCT 27,85	OCT 26,85	730 800	2100 2200	1	3.8	1	41689	2	1	93	
NOV 4,85	NOV 3,85	800 730	1300 1700	1	11.4	1	41692	2	1	92	
NOV 5,85	NOV 4,85	730 730	900 1200	1	5.6	1	41693	2	1	108	C
NOV 7,85	NOV 6,85	730 730	630 730	1	0.4	2	41694	2	1	276	N
NOV 8,85	NOV 7,85	730 730	730 1100	3	11.4	2	41695	2	1	93	
NOV 9,85	NOV 8,85	730 800	630 830	2	1.0	2	41696	2	1	98	
NOV 10,85	NOV 9,85	800 800	1000 1200	2	12.6	2	41697	2	1	69	
NOV 13,85	NOV 12,85	730 730	2100 2300	1	13.6	2	41699	2	1	100	
NOV 16,85	NOV 14,85	730 715	900 1000	1	0.6	2	41701	2	1	236	NY
NOV 17,85	NOV 16,85	715 830	1300 1600	1	11.8	2	41702	2	1	95	
NOV 18,85	NOV 17,85	830 730	1200 100	1	1.0	1	41703	2	1	145	N
NOV 19,85	NOV 18,85	730 730	2200 2300	1	21.6	2	41704	2	1	96	
NOV 20,85	NOV 19,85	730 730	2230 2330	1	9.2	2	41705	2	1	U 102	G
NOV 23,85	NOV 22,85	730 830	930 1400	2	11.6	2	41707	2	1	U 63	F CM

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L	
AUG 18,85	AUG 17,85	1321.0	47.0		3.98	4.02	*****	0.1330	4.55	0.54
AUG 20,85	AUG 19,85	128.0	6.3	UG	5.10	5.16	*****	0.0251	LG 0.50	LG 0.06
AUG 24,85	AUG 23,85	*****	*****	*****	*****	*****	*****	*****	*****	*****
AUG 25,85	AUG 24,85	320.0	51.5		3.90	3.96	*****	0.1540	4.45	0.65
AUG 27,85	AUG 26,85	1396.0	46.8		3.96	4.02	*****	0.1380	4.35	0.51
AUG 28,85	AUG 27,85	111.0	15.1		4.62	4.78	*****	0.0427	2.10	0.22
AUG 30,85	AUG 29,85	1994.0	42.2		3.99	4.10	*****	0.1260	D 4.45	0.41
SEP 2,85	SEP 1,85	221.0	> 100.0		3.71	3.79	*****	0.2500	11.00	D 1.81
SEP 3,85	SEP 2,85	89.0	36.7		*****	4.32	*****	0.0863	4.50	0.59
SEP 4,85	SEP 3,85	1342.0	29.6		4.24	4.39	*****	0.0775	3.45	0.44
SEP 6,85	SEP 5,85	898.0	7.2		4.85	4.89	*****	0.0319	0.60	0.12
SEP 9,85	SEP 8,85	241.0	12.1		4.60	4.73	*****	0.0466	1.20	0.27
SEP 10,85	SEP 9,85	247.0	15.3		4.41	4.53	*****	0.0569	1.35	0.32
SEP 24,85	SEP 23,85	707.0	18.2		4.47	4.50	*****	0.0539	1.90	0.23
SEP 25,85	SEP 24,85	40.0	D 23.5	*****	4.32	*****	0.0696	2.15	D 0.41	0.41
SEP 27,85	SEP 26,85	887.0	37.0		4.10	4.14	*****	0.1030	3.30	0.42
OCT 1,85	SEP 30,85	994.0	44.5		4.03	4.09	*****	0.1170	4.20	0.76
OCT 3,85	OCT 2,85	211.0	18.9		4.53	4.66	*****	0.0492	2.40	0.37
OCT 5,85	OCT 4,85	673.0	42.3		4.03	4.03	*****	0.1150	3.55	0.81
OCT 7,85	OCT 6,85	952.0	9.1		4.77	4.83	*****	0.0321	0.90	0.12
OCT 10,85	OCT 9,85	711.0	40.5		4.11	4.16	*****	0.0969	3.95	0.80
OCT 13,85	OCT 12,85	2128.0	21.5		4.30	4.34	*****	0.0645	2.15	0.23
OCT 15,85	OCT 14,85	285.0	12.3		4.52	4.67	*****	0.0372	0.90	0.25
OCT 16,85	OCT 15,85	284.0	13.4	D	4.61	4.67	*****	0.0424	1.30	0.21
OCT 19,85	OCT 18,85	381.0	13.6		4.46	4.51	*****	0.0548	1.65	0.27
OCT 25,85	OCT 24,85	596.0	24.8		4.29	4.33	*****	0.0681	2.15	0.30
OCT 27,85	OCT 26,85	227.0	*****		4.87	*****	*****	*****	*****	*****
NOV 4,85	NOV 3,85	678.0	8.6	UG	4.82	4.93	*****	0.0332	0.65	0.17
NOV 5,85	NOV 4,85	389.0	D 6.3	UG	4.95	5.02	*****	0.0272	0.30	D 0.08
NOV 7,85	NOV 6,85	71.0	36.6		*****	4.19	*****	0.0935	2.80	0.65
NOV 8,85	NOV 7,85	683.0	39.2		4.15	4.14	*****	0.1020	2.85	0.71
NOV 9,85	NOV 8,85	63.0	23.0		*****	4.44	*****	0.0613	1.50	0.52
NOV 10,85	NOV 9,85	563.0	18.4		4.47	4.46	*****	0.0558	0.65	0.43
NOV 13,85	NOV 12,85	876.0	16.0		4.50	4.54	*****	0.0499	1.30	0.17
NOV 16,85	NOV 14,85	91.0	16.8		*****	4.66	*****	0.0433	2.05	0.19
NOV 17,85	NOV 16,85	725.0	25.9		4.29	4.32	*****	0.0699	1.65	0.56
NOV 18,85	NOV 17,85	93.0	33.8		*****	4.19	*****	0.0866	2.55	0.71
NOV 19,85	NOV 18,85	1342.0	34.8		4.12	4.15	*****	0.0913	2.75	0.56
NOV 20,85	NOV 19,85	605.0	29.6		4.21	4.26	*****	0.0767	2.60	0.49
NOV 23,85	NOV 22,85	473.0	LG 3.8	UG	5.30	UG 5.72	*****	0.0203	<T 0.15	<T 0.02

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM

#07

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 18,85	AUG 17,85	0.08	0.11	<T 0.010	0.035	<T 0.010	0.290	0.0955
AUG 20,85	AUG 19,85	0.08	0.20	<T 0.010	0.075	0.055	0.060	0.0069
AUG 24,85	AUG 23,85	*****	*****	*****	*****	*****	*****	*****
AUG 25,85	AUG 24,85	0.09	0.30	<T 0.015	0.075	0.025	0.085	0.1096
AUG 27,85	AUG 26,85	<W 0.01	0.10	<T 0.005	0.040	<T 0.005	0.215	0.0955
AUG 28,85	AUG 27,85	0.17	0.14	0.035	0.120	0.075	0.370	0.0166
AUG 30,85	AUG 29,85	0.10	<T 0.06	<T 0.010	0.040	0.025	0.315	0.0794
SEP 2,85	SEP 1,85	0.98	0.42	0.150	0.145	0.100	1.400	0.1622
SEP 3,85	SEP 2,85	0.61	0.18	0.085	0.135	0.130	0.530	0.0479
SEP 4,85	SEP 3,85	0.22	0.13	0.065	0.065	0.090	D 0.435	0.0407
SEP 6,85	SEP 5,85	0.07	<T 0.03	<T 0.005	<T 0.010	<T 0.010	0.090	0.0129
SEP 9,85	SEP 8,85	0.14	<T 0.06	<T 0.015	0.025	0.040	0.255	0.0186
SEP 10,85	SEP 9,85	0.15	0.07	0.020	0.025	0.035	0.190	0.0295
SEP 24,85	SEP 23,85	0.15	0.08	0.020	<T 0.010	0.045	0.220	0.0316
SEP 25,85	SEP 24,85	*****	0.17	*****	*****	*****	0.085	0.0479
SEP 27,85	SEP 26,85	0.16	0.09	0.025	0.030	<T 0.020	0.155	0.0724
OCT 1,85	SEP 30,85	0.28	0.13	0.040	0.040	0.030	0.580	0.0813
OCT 3,85	OCT 2,85	0.21	0.08	0.045	0.070	0.045	0.540	0.0219
OCT 5,85	OCT 4,85	0.21	0.09	0.020	0.045	<T 0.015	0.285	0.0933
OCT 7,85	OCT 6,85	0.04	<T 0.02	<T 0.005	<T 0.015	<T 0.005	0.105	0.0148
OCT 10,85	OCT 9,85	0.33	0.11	0.035	0.075	0.040	0.670	0.0692
OCT 13,85	OCT 12,85	0.06	0.07	<T 0.010	<T 0.015	0.045	0.120	0.0457
OCT 15,85	OCT 14,85	0.11	D 0.24	<T 0.010	D 0.150	0.090	0.085	0.0214
OCT 16,85	OCT 15,85	0.07	0.07	0.020	0.050	0.030	0.130	0.0214
OCT 19,85	OCT 18,85	<T 0.02	<T 0.06	<T 0.010	<T 0.015	<T 0.015	0.155	0.0309
OCT 25,85	OCT 24,85	0.13	0.09	<T 0.015	0.030	0.040	0.115	0.0468
OCT 27,85	OCT 26,85	*****	*****	*****	*****	*****	*****	*****
NOV 4,85	NOV 3,85	<T 0.04	0.11	<T 0.010	0.030	0.080	0.090	0.0117
NOV 5,85	NOV 4,85	<T 0.01	<T 0.06	<W 0.005	<T 0.015	0.040	0.015	0.0095
NOV 7,85	NOV 6,85	0.25	0.29	0.025	0.190	0.130	0.215	0.0646
NOV 8,85	NOV 7,85	0.15	0.13	<T 0.010	0.025	0.030	0.405	0.0724
NOV 9,85	NOV 8,85	0.19	0.13	0.015	0.065	0.050	0.275	0.0363
NOV 10,85	NOV 9,85	<T 0.03	<T 0.03	<W 0.005	<T 0.005	<T 0.020	0.090	0.0347
NOV 13,85	NOV 12,85	0.08	0.07	<T 0.005	<T 0.010	0.020	0.080	0.0288
NOV 16,85	NOV 14,85	0.34	0.19	0.045	0.125	0.120	0.115	0.0219
NOV 17,85	NOV 16,85	0.12	0.09	0.015	0.020	<T 0.015	0.245	0.0479
NOV 18,85	NOV 17,85	0.15	0.13	0.025	0.085	0.050	0.350	0.0646
NOV 19,85	NOV 18,85	0.13	0.37	0.040	0.030	0.210	0.175	0.0708
NOV 20,85	NOV 19,85	0.13	0.25	0.030	0.030	0.125	0.305	0.0550
NOV 23,85	NOV 22,85	<T 0.04	<T 0.06	<W 0.005	<T 0.010	<T 0.015	<T 0.005	LG 0.0019

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM

#07

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
NOV 24,85	NOV 23,85	830 830	100 200	2	1.6	2	41708	2	1	****	EFK
DEC 1,85	NOV 30,85	730 830	1630 1730	1	1.4	2	41711	2	1	115	
DEC 2,85	DEC 1,85	830 630	2200 2300	1	15.8	2	41712	2	1	103	
DEC 3,85	DEC 2,85	630 730	800 900	2	1.8	2	41715	2	1	****	E
DEC 6,85	DEC 5,85	900 730	2000 2100	3	1.4	2	41716	2	1	76	
DEC 8,85	DEC 7,85	830 830	630 830	1	1.4	2	41718	2	1	131	N
DEC 9,85	DEC 8,85	830 730	830 930	3	****	2	41719	2	1	****	
DEC 11,85	DEC 10,85	730 730	**** ****	3	5.0	2	41721	2	1	86	
DEC 13,85	DEC 12,85	730 745	630 745	2	1.4	2	41723	2	1	66	C
DEC 14,85	DEC 13,85	745 830	1200 1300	2	1.0	2	41724	2	1	104	C
DEC 15,85	DEC 14,85	830 845	600 730	2	2.8	2	41725	2	1	69	C
DEC 16,85	DEC 15,85	845 730	845 1400	2	9.2	2	41726	2	1	64	
DEC 17,85	DEC 16,85	730 730	830 1100	2	4.6	2	41727	2	1	88	C
DEC 19,85	DEC 17,85	730 730	600 730	2	4.0	2	41728	2	1	58	Z
DEC 20,85	DEC 19,85	730 730	500 800	2	1.2	2	41729	2	1	68	
DEC 23,85	DEC 21,85	730 800	900 1100	3	6.0	2	41730	2	1	67	Z
DEC 24,85	DEC 23,85	800 800	800 1000	2	10.6	2	41731	2	1	75	
DEC 26,85	DEC 25,85	800 830	630 850	2	2.8	2	41732	2	1	66	
DEC 28,85	DEC 26,85	830 830	500 700	2	11.8	2	41733	2	1	60	Z
DEC 29,85	DEC 28,85	830 800	1200 1600	2	9.0	2	41734	2	1	59	
DEC 30,85	DEC 29,85	800 800	800 1000	2	3.4	2	41735	2	1	74	C
DEC 31,85	DEC 30,85	800 800	800 1030	3	5.8	2	41736	2	1	46	N

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM

#07

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 24,85	NOV 23,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 1,85	NOV 30,85	104.0	> 100.0	LG 3.47	LG 3.48	*****	UG 0.4150	7.30	UG 3.90
DEC 2,85	DEC 1,85	1051.0	26.7	4.25	4.28	*****	0.0722	1.60	0.52
DEC 3,85	DEC 2,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 6,85	DEC 5,85	69.0	> 100.0	*****	LG 3.47	*****	UG 0.4190	UG 10.80	UG 3.75
DEC 8,85	DEC 7,85	118.0	> 100.0	LG 3.53	LG 3.54	*****	UG 0.3660	9.70	UG 3.70
DEC 9,85	DEC 8,85	29.0	UG 89.5	*****	3.76	*****	UG 0.2260	7.85	1.54
DEC 11,85	DEC 10,85	278.0	29.2	4.21	4.24	*****	0.0821	D 1.60	0.62
DEC 13,85	DEC 12,85	60.0	33.1	*****	4.37	*****	0.0735	2.95	0.90
DEC 14,85	DEC 13,85	67.0	27.0	*****	4.40	*****	0.0693	1.60	0.79
DEC 15,85	DEC 14,85	124.0	11.8	4.79	4.85	*****	0.0361	0.30	0.46
DEC 16,85	DEC 15,85	383.0	9.6	UG 4.87	4.96	*****	0.0293	0.35	0.31
DEC 17,85	DEC 16,85	261.0	LG 4.1	UG 5.95	UG 6.30	*****	LG 0.0186	LG 0.20	0.12
DEC 19,85	DEC 17,85	149.0	10.7	UG 4.92	4.97	*****	0.0317	0.30	0.49
DEC 20,85	DEC 19,85	53.0	*****	*****	4.91	*****	0.0351	0.55	0.46
DEC 23,85	DEC 21,85	258.0	23.4	4.49	4.45	*****	0.0618	1.40	0.73
DEC 24,85	DEC 23,85	513.0	21.3	4.48	4.49	*****	0.0593	0.95	0.67
DEC 26,85	DEC 25,85	120.0	12.2	4.74	4.77	*****	0.0394	0.70	0.31
DEC 28,85	DEC 26,85	457.0	9.0	UG 4.92	4.96	*****	0.0335	0.30	0.31
DEC 29,85	DEC 28,85	345.0	10.0	UG 4.85	4.87	*****	0.0333	0.35	0.33
DEC 30,85	DEC 29,85	162.0	11.6	UG 4.85	4.84	*****	0.0359	0.50	0.43
DEC 31,85	DEC 30,85	173.0	30.7	4.43	4.41	*****	0.0675	1.40	1.30

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY/AEROCHEM

#07

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 24,85	NOV 23,85	*****	*****	*****	*****	*****	*****	*****
DEC 1,85	NOV 30,85	0.44	D 0.88	0.060	UG 0.425	0.370	0.590	UG 0.3311
DEC 2,85	DEC 1,85	0.06	0.13	<T 0.010	0.025	0.030	0.150	0.0525
DEC 3,85	DEC 2,85	*****	*****	*****	*****	*****	*****	*****
DEC 6,85	DEC 5,85	0.67	U 1.75	0.105	0.165	0.435	1.700	UG 0.3388
DEC 8,85	DEC 7,85	0.35	0.63	0.055	0.140	0.215	2.190	UG 0.2884
DEC 9,85	DEC 8,85	*****	0.34	*****	*****	*****	*****	0.1738
DEC 11,85	DEC 10,85	0.06	0.07	<T 0.005	<T 0.015	0.030	0.190	0.0575
DEC 13,85	DEC 12,85	0.47	0.54	0.060	0.100	0.225	0.665	0.0427
DEC 14,85	DEC 13,85	0.31	0.28	0.040	0.085	0.140	0.315	0.0398
DEC 15,85	DEC 14,85	0.12	0.07	<T 0.010	0.040	0.035	0.170	0.0141
DEC 16,85	DEC 15,85	0.06	<T 0.04	<W 0.005	0.025	<T 0.015	0.180	0.0110
DEC 17,85	DEC 16,85	0.04	0.10	<W 0.005	0.045	0.050	0.250	LG 0.0005
DEC 19,85	DEC 17,85	0.11	0.17	0.020	0.040	0.080	0.330	0.0107
DEC 20,85	DEC 19,85	0.13	0.17	0.025	0.085	0.125	0.285	0.0123
DEC 23,85	DEC 21,85	0.11	0.18	0.015	0.045	0.060	0.540	0.0355
DEC 24,85	DEC 23,85	0.07	0.13	<T 0.005	D 0.080	0.085	0.400	0.0324
DEC 26,85	DEC 25,85	<W 0.01	0.12	<W 0.005	0.045	0.040	0.210	0.0170
DEC 28,85	DEC 26,85	0.05	0.08	<T 0.010	0.055	0.040	0.170	0.0110
DEC 29,85	DEC 28,85	0.07	0.12	0.020	0.040	0.060	0.165	0.0135
DEC 30,85	DEC 29,85	0.16	0.19	0.025	0.040	0.080	0.250	0.0145
DEC 31,85	DEC 30,85	0.37	0.27	0.045	0.040	0.135	0.860	0.0389

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM

#05

PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JAN 2,85	JAN 1,85	900 855	830 1300	2	4.8	2	41067	2	1	U 23	FI
JAN 3,85	JAN 2,85	855 900	800 1000	2	0.1	2	41068	2	1	****	EFI
JAN 6,85	JAN 5,85	900 900	1600 2100	2	2.0	2	41069	2	1	32	N
JAN 7,85	JAN 6,85	900 900	700 1700	2	4.2	2	41070	2	1	U 5	FI
JAN 8,85	JAN 7,85	900 900	1000 1400	2	5.4	2	41071	2	1	****	EFI
JAN 13,85	JAN 12,85	900 900	700 900	2	1.8	2	41072	2	1	U 25	FJ
JAN 15,85	JAN 14,85	700 900	700 1000	2	1.6	2	41073	2	1	U 69	FJ
JAN 17,85	JAN 16,85	900 900	1630 2100	2	4.7	2	41074	2	1	U 54	FJ
JAN 18,85	JAN 17,85	900 900	900 900	2	3.4	2	41075	2	1	U 76	F
JAN 19,85	JAN 18,85	900 900	900 1100	2	4.7	2	41076	2	1	U 71	F
JAN 20,85	JAN 19,85	900 900	700 1000	2	1.2	2	41077	2	1	U 22	F
JAN 21,85	JAN 20,85	900 930	800 1700	2	6.6	2	41078	2	1	U 33	FI
JAN 22,85	JAN 21,85	930 930	800 1200	2	2.4	2	41079	2	1	U 26	FI
JAN 23,85	JAN 22,85	930 930	1530 30	2	2.8	2	41080	2	1	****	EFI
JAN 24,85	JAN 23,85	930 930	800 2430	2	6.2	2	41081	2	1	U 68	FJ
JAN 25,85	JAN 24,85	930 900	1445 1530	2	3.7	2	41082	2	1	71	
JAN 27,85	JAN 26,85	900 915	1620 2100	2	1.0	2	41083	2	1	****	EK
JAN 28,85	JAN 27,85	915 900	700 1500	2	1.4	2	41084	2	1	23	N
FEB 1,85	JAN 31,85	900 915	830 1500	2	3.0	2	41085	2	1	25	N
FEB 4,85	FEB 3,85	915 900	1630 1900	2	0.4	2	41086	2	1	****	EK
FEB 5,85	FEB 4,85	900 900	700 2400	2	0.8	2	41087	2	1	62	C
FEB 6,85	FEB 5,85	900 900	700 2400	2	2.2	2	41088	2	1	15	N
FEB 7,85	FEB 6,85	900 900	1800 2330	2	0.7	2	41089	2	1	71	Q
FEB 12,85	FEB 11,85	900 900	1700 1900	2	3.2	2	41091	2	1	40	N
FEB 13,85	FEB 12,85	900 900	900 2100	3	19.4	2	41092	2	1	89	
FEB 14,85	FEB 13,85	900 900	830 100	2	5.8	2	41095	2	1	62	
FEB 15,85	FEB 14,85	900 900	800 1200	2	2.3	2	41096	2	1	29	Q
FEB 16,85	FEB 15,85	900 900	700 1500	2	1.6	2	41097	2	1	51	N
FEB 17,85	FEB 16,85	900 900	700 1500	2	5.1	2	41098	2	1	55	
FEB 18,85	FEB 17,85	900 900	825 1500	2	2.0	2	41099	2	1	44	N
FEB 19,85	FEB 18,85	900 900	2230 300	2	1.6	2	41100	2	1	27	N
FEB 20,85	FEB 19,85	900 900	630 1200	2	0.8	2	41101	2	1	46	N
FEB 22,85	FEB 21,85	900 900	2030 300	1	12.2	2	41102	2	1	103	
FEB 23,85	FEB 22,85	900 900	1500 1700	1	5.1	2	41103	2	1	102	
FEB 24,85	FEB 23,85	900 900	800 2100	1	35.8	2	41104	2	1	99	
FEB 25,85	FEB 24,85	900 900	1000 1500	1	0.9	2	41107	2	1	126	N
FEB 27,85	FEB 26,85	900 900	2100 700	2	6.6	2	41108	2	1	73	
MAR 2,85	MAR 1,85	900 900	1230 1530	3	1.7	2	41111	2	1	143	N
MAR 4,85	MAR 3,85	900 900	500 900	2	3.1	2	41112	2	1	****	EK
MAR 5,85	MAR 4,85	900 1000	900 200	2	29.4	2	41113	2	1	U 5	IF

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM

#05

PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 2,85	JAN 1,85	73.0	9.1	*****	4.87	0.0338	0.0330	0.90	LG 0.05
JAN 3,85	JAN 2,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 6,85	JAN 5,85	42.0	28.5	*****	4.42	0.0686	0.0677	2.70	0.50
JAN 7,85	JAN 6,85	15.0	*****	*****	5.10	0.0262	0.0261	*****	*****
JAN 8,85	JAN 7,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 13,85	JAN 12,85	29.0	15.7	*****	*****	*****	*****	2.05	0.41
JAN 15,85	JAN 14,85	71.0	35.6	*****	4.33	0.0832	0.0842	2.45	1.15
JAN 17,85	JAN 16,85	164.0	20.4	4.42	4.48	*****	0.0519	0.40	0.56
JAN 18,85	JAN 17,85	167.0	27.4	4.23	4.28	*****	0.0757	0.55	0.76
JAN 19,85	JAN 18,85	215.0	35.9	4.12	4.15	*****	0.0941	0.65	1.03
JAN 20,85	JAN 19,85	17.0	*****	*****	4.04	0.1190	0.1190	*****	*****
JAN 21,85	JAN 20,85	140.0	LG 4.6	UG 5.0	UG 5.21	*****	0.0231	0.25	LG 0.08
JAN 22,85	JAN 21,85	41.0	10.7	*****	UG 6.01	*****	0.0206	1.85	0.23
JAN 23,85	JAN 22,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 24,85	JAN 23,85	271.0	13.1	4.54	4.58	*****	0.0439	0.70	0.30
JAN 25,85	JAN 24,85	170.0	33.0	4.16	4.20	*****	0.0840	0.95	1.00
JAN 27,85	JAN 26,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 28,85	JAN 27,85	21.0	*****	*****	*****	*****	*****	*****	*****
FEB 1,85	JAN 31,85	49.0	45.9	*****	4.02	*****	0.1220	1.30	1.17
FEB 4,85	FEB 3,85	*****	*****	*****	*****	*****	*****	*****	*****
FEB 5,85	FEB 4,85	32.0	*****	*****	4.70	*****	0.0376	*****	*****
FEB 6,85	FEB 5,85	22.0	*****	*****	*****	*****	*****	*****	*****
FEB 7,85	FEB 6,85	32.0	*****	*****	4.32	*****	0.0664	*****	*****
FEB 12,85	FEB 11,85	83.0	20.0	*****	4.38	*****	0.0585	0.70	0.58
FEB 13,85	FEB 12,85	1108.0	8.6	4.66	4.75	*****	0.0314	0.60	0.10
FEB 14,85	FEB 13,85	231.0	48.4	3.97	3.96	*****	0.1290	2.25	1.07
FEB 15,85	FEB 14,85	43.0	10.8	*****	4.72	*****	0.0369	0.45	0.24
FEB 16,85	FEB 15,85	53.0	14.9	*****	4.54	*****	0.0434	0.55	0.41
FEB 17,85	FEB 16,85	183.0	56.8	3.90	3.91	*****	0.1470	1.00	1.68
FEB 18,85	FEB 17,85	57.0	18.4	*****	4.46	*****	0.0536	0.85	0.45
FEB 19,85	FEB 18,85	28.0	*****	*****	4.11	*****	0.1040	*****	*****
FEB 20,85	FEB 19,85	24.0	*****	*****	4.02	*****	0.1240	*****	*****
FEB 22,85	FEB 21,85	809.0	34.4	4.12	4.16	*****	0.0933	2.10	0.56
FEB 23,85	FEB 22,85	334.0	25.5	4.26	4.27	*****	0.0715	1.60	0.41
FEB 24,85	FEB 23,85	2287.0	22.3	4.30	4.31	*****	0.0669	1.35	0.35
FEB 25,85	FEB 24,85	73.0	37.4	*****	4.16	*****	0.0865	2.80	0.58
FEB 27,85	FEB 26,85	312.0	41.9	4.16	4.17	*****	0.0921	3.10	1.23
MAR 2,85	MAR 1,85	156.0	UG 94.8	3.81	3.79	*****	0.1980	8.45	2.40
MAR 4,85	MAR 3,85	*****	*****	*****	*****	*****	*****	*****	*****
MAR 5,85	MAR 4,85	101.0	41.2	*****	4.06	*****	0.1010	2.75	D 0.88

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM

#05

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 2,85	JAN 1,85	0.07	0.06	<T 0.010	<T 0.020	0.045	LG 0.005	0.0135
JAN 3,85	JAN 2,85	*****	*****	*****	*****	*****	*****	*****
JAN 6,85	JAN 5,85	*****	0.43	*****	*****	*****	0.440	0.0380
JAN 7,85	JAN 6,85	*****	*****	*****	*****	*****	*****	0.0079
JAN 8,85	JAN 7,85	*****	*****	*****	*****	*****	*****	*****
JAN 13,85	JAN 12,85	*****	0.34	*****	*****	*****	*****	*****
JAN 15,85	JAN 14,85	*****	0.51	*****	*****	*****	*****	*****
JAN 17,85	JAN 16,85	0.19	0.60	0.020	<T 0.020	0.340	0.455	0.0468
JAN 18,85	JAN 17,85	0.08	0.25	<T 0.015	<T 0.010	0.095	0.035	0.0331
JAN 19,85	JAN 18,85	0.09	0.32	<T 0.015	<T 0.005	0.085	0.070	0.0525
JAN 20,85	JAN 19,85	*****	*****	*****	*****	*****	0.120	0.0708
JAN 21,85	JAN 20,85	0.07	<T 0.02	<T 0.010	<T 0.005	<T 0.005	*****	0.0912
JAN 22,85	JAN 21,85	*****	0.40	*****	*****	*****	0.015	LG 0.0062
JAN 23,85	JAN 22,85	*****	*****	*****	*****	*****	0.090	LG 0.0010
JAN 24,85	JAN 23,85	<T 0.03	0.06	<T 0.010	0.025	0.030	*****	*****
JAN 25,85	JAN 24,85	0.21	0.63	0.020	0.040	0.370	0.080	0.0263
JAN 27,85	JAN 26,85	*****	*****	*****	*****	*****	0.225	0.0631
JAN 28,85	JAN 27,85	*****	*****	*****	*****	*****	*****	*****
FEB 1,85	JAN 31,85	*****	0.45	*****	*****	*****	*****	*****
FEB 4,85	FEB 3,85	*****	*****	*****	*****	*****	*****	0.0955
FEB 5,85	FEB 4,85	*****	*****	*****	*****	*****	*****	*****
FEB 6,85	FEB 5,85	*****	*****	*****	*****	*****	*****	0.0200
FEB 7,85	FEB 6,85	*****	*****	*****	*****	*****	*****	*****
FEB 12,85	FEB 11,85	0.12	0.16	0.020	0.025	0.155	*****	0.0479
FEB 13,85	FEB 12,85	<T 0.02	0.10	<W 0.005	0.015	0.035	0.065	0.0417
FEB 14,85	FEB 13,85	<T 0.03	0.21	<T 0.005	<T 0.010	0.060	0.015	0.0178
FEB 15,85	FEB 14,85	*****	0.15	*****	*****	*****	0.225	0.1096
FEB 16,85	FEB 15,85	*****	0.18	*****	*****	*****	*****	0.0191
FEB 17,85	FEB 16,85	0.17	D 0.53	0.020	0.015	0.150	0.050	0.0288
FEB 18,85	FEB 17,85	*****	0.20	*****	*****	*****	0.125	0.1230
FEB 19,85	FEB 18,85	*****	*****	*****	*****	*****	0.070	0.0347
FEB 20,85	FEB 19,85	*****	*****	*****	*****	*****	*****	0.0776
FEB 22,85	FEB 21,85	<T 0.04	0.17	0.025	0.040	0.065	*****	0.0955
FEB 23,85	FEB 22,85	<T 0.05	<T 0.06	<T 0.010	0.105	0.040	<T 0.005	0.0692
FEB 24,85	FEB 23,85	<W 0.01	0.09	<T 0.005	<T 0.010	0.035	0.105	0.0537
FEB 25,85	FEB 24,85	0.09	D 0.21	<T 0.010	<T 0.090	0.075	0.305	0.0490
FEB 27,85	FEB 26,85	0.30	0.15	0.050	0.045	0.080	0.950	0.0692
MAR 2,85	MAR 1,85	UG 1.75	UG 0.91	UG 0.275	0.095	UG 0.615	1.350	0.0676
MAR 4,85	MAR 3,85	*****	*****	*****	*****	*****	*****	0.1622
MAR 5,85	MAR 4,85	D 0.34	D 0.19	0.040	0.025	0.220	0.425	*****
								0.0871

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM

#05

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.		PRECIP START/END HR. HR.		SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE	
MAR 6,85	MAR 5,85	1000	900	930	1400	2	0.2	2	41114	2	1	7	E	
MAR 8,85	MAR 7,85	900	900	2100	2300	3	0.8	2	41115	2	1	103		
MAR 9,85	MAR 8,85	900	900	600	1000	3	0.4	2	41116	2	1	167		N
MAR 12,85	MAR 11,85	900	900	1500	2000	1	14.0	2	41117	2	1	97		
MAR 13,85	MAR 12,85	900	900	1300	1700	1	0.5	2	41120	2	1	180		N
MAR 14,85	MAR 13,85	900	900	****	****	2	0.6	2	41121	2	1	****	E	
MAR 15,85	MAR 14,85	900	900	****	****	2	0.1	2	41122	2	1	****		
MAR 17,85	MAR 16,85	900	900	1845	2400	2	1.4	2	41123	2	1	25		N
MAR 28,85	MAR 27,85	800	900	1510	1815	1	3.0	2	41126	2	1	110		HM
MAR 29,85	MAR 28,85	900	900	930	1600	1	18.6	2	41127	2	1	102		
APR 1,85	MAR 31,85	900	900	100	2100	3	10.8	2	41130	2	1	28	I	
APR 2,85	APR 1,85	900	900	1800	2130	2	3.1	2	41131	2	1	29		N
APR 3,85	APR 2,85	900	930	200	900	2	5.0	2	41132	2	1	34		N
APR 4,85	APR 3,85	930	900	900	1400	2	6.8	2	41133	2	1	75		000000
APR 5,85	APR 4,85	900	915	1830	400	2	15.8	2	41134	2	1	57		
APR 6,85	APR 5,85	915	930	1200	1700	1	7.8	2	41135	2	1	106		
APR 7,85	APR 6,85	930	900	2240	2415	2	1.4	2	41136	2	1	****	E	
APR 11,85	APR 10,85	900	900	1330	1430	3	1.0	2	41137	2	1	107	CQ	
APR 14,85	APR 13,85	900	930	2100	2300	3	2.2	2	41138	2	1	46		N
APR 15,85	APR 14,85	930	900	200	400	1	0.6	2	41139	2	1	137	C	N
APR 16,85	APR 15,85	900	800	1640	1700	3	2.4	2	41140	2	1	120		N
APR 18,85	APR 17,85	800	900	300	900	3	8.7	2	41141	2	1	85		
APR 19,85	APR 18,85	900	1300	900	1130	1	3.2	2	41142	2	1	155		000000
APR 20,85	APR 19,85	1300	915	900	1215	1	2.6	2	41143	2	1	114		
APR 28,85	APR 27,85	800	800	****	****	1	1.7	1	41145	2	1	74		
MAY 5,85	MAY 4,85	900	900	1830	900	1	8.2	1	41146	2	1	94	AC	000000
MAY 6,85	MAY 5,85	900	900	900	1900	1	11.6	1	41147	2	1	****	E	
MAY 7,85	MAY 6,85	900	920	1630	1930	1	11.0	1	41148	2	1	****	E	
MAY 8,85	MAY 7,85	920	900	1900	2200	1	1.1	1	41149	2	1	62		
MAY 16,85	MAY 15,85	930	900	1730	1800	1	0.6	1	41151	2	1	54		
MAY 18,85	MAY 17,85	900	900	****	****	1	0.2	1	41153	2	1	****	E	
MAY 19,85	MAY 18,85	900	900	1020	1040	1	1.0	1	41154	2	1	85		HM
MAY 20,85	MAY 19,85	900	900	1115	1145	1	1.8	1	41155	2	1	79	C	HM
MAY 21,85	MAY 20,85	900	900	1200	1500	1	15.8	1	41156	2	1	98		
MAY 26,85	MAY 25,85	900	900	2000	2330	1	2.2	1	41159	2	1	83		H
MAY 27,85	MAY 26,85	900	915	900	2000	1	22.8	1	41160	2	1	95		
MAY 28,85	MAY 27,85	915	830	930	1115	1	6.2	1	41161	2	1	94		
MAY 31,85	MAY 30,85	830	900	1300	1320	1	3.0	1	41162	2	1	91		
JUN 1,85	MAY 31,85	900	900	930	1030	1	8.0	1	41163	2	1	93	CI	JH
JUN 8,85	JUN 7,85	900	900	200	300	1	0.6	1	41164	2	1	80		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM				#05	PAGE : 5					
REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L	
MAR 6,85	MAR 5,85	1.0	*****	*****	*****	*****	*****	*****	*****	
MAR 8,85	MAR 7,85	53.0	> 100.0	*****	LG 3.64	*****	UG 0.3200	UG 12.00	UG 4.95	
MAR 9,85	MAR 8,85	43.0	UG 85.3	*****	3.93	*****	0.1720	5.90	UG 2.82	
MAR 12,85	MAR 11,85	871.0	27.8	4.24	4.31	*****	0.0763	2.15	0.50	
MAR 13,85	MAR 12,85	58.0	30.3	*****	4.25	*****	0.0807	2.40	0.58	
MAR 14,85	MAR 13,85	*****	*****	*****	*****	*****	*****	*****	*****	
MAR 15,85	MAR 14,85	*****	*****	*****	*****	*****	*****	*****	*****	
MAR 17,85	MAR 16,85	23.0	*****	*****	4.87	*****	0.0459	*****	*****	
MAR 28,85	MAR 27,85	212.0	32.6	*****	4.46	*****	0.0696	4.55	0.58	
MAR 29,85	MAR 28,85	1217.0	*****	*****	*****	*****	*****	*****	*****	
APR 1,85	MAR 31,85	194.0	27.9	*****	4.34	*****	0.0787	2.40	0.40	
APR 2,85	APR 1,85	59.0	34.2	*****	4.26	*****	0.0933	2.80	0.54	
APR 3,85	APR 2,85	109.0	*****	*****	UG 7.09	*****	0.0235	*****	*****	
APR 4,85	APR 3,85	330.0	20.6	*****	4.44	*****	0.0579	1.40	0.38	
APR 5,85	APR 4,85	581.0	20.9	*****	4.51	*****	0.0575	1.90	0.42	
APR 6,85	APR 5,85	532.0	35.9	*****	4.26	*****	0.0879	3.45	0.57	
APR 7,85	APR 6,85	*****	*****	*****	*****	*****	*****	*****	*****	
APR 11,85	APR 10,85	69.0	> 100.0	*****	UG 7.69	*****	LG 0.0064	B 14.30	B 4.48	
APR 14,85	APR 13,85	65.0	> 100.0	*****	LG 3.68	*****	UG 0.2590	UG 12.00	D 1.67	
APR 15,85	APR 14,85	53.0	> 100.0	*****	LG 3.58	*****	UG 0.3180	UG 11.80	2.55	
APR 16,85	APR 15,85	186.0	51.5	*****	4.24	*****	0.0951	6.05	1.36	
APR 18,85	APR 17,85	477.0	44.7	*****	4.63	*****	0.0579	7.60	1.35	
APR 19,85	APR 18,85	320.0	31.0	*****	5.05	*****	0.0352	6.25	0.79	
APR 20,85	APR 19,85	191.0	56.3	*****	4.05	*****	0.1250	5.95	1.10	
APR 28,85	APR 27,85	81.0	16.0	*****	4.76	*****	0.0422	2.25	0.20	
MAY 5,85	MAY 4,85	499.0	31.1	*****	4.68	*****	0.0538	3.95	1.10	
MAY 6,85	MAY 5,85	*****	*****	*****	*****	*****	*****	*****	*****	
MAY 7,85	MAY 6,85	*****	*****	*****	*****	*****	*****	*****	*****	
MAY 8,85	MAY 7,85	44.0	16.2	*****	4.61	*****	0.0468	2.20	0.25	
MAY 16,85	MAY 15,85	21.0	*****	*****	LG 3.38	*****	UG 0.5310	*****	*****	
MAY 18,85	MAY 17,85	*****	*****	*****	*****	*****	*****	*****	*****	
MAY 19,85	MAY 18,85	55.0	8.1	*****	5.04	*****	0.0314	1.05	0.09	
MAY 20,85	MAY 19,85	92.0	U 75.5	U *****	U 7.45	U *****	U 0.0230	U 9.45	U 2.45	
MAY 21,85	MAY 20,85	999.0	23.6	4.51	4.65	*****	0.0596	4.45	0.75	
MAY 26,85	MAY 25,85	118.0	15.7	*****	4.86	*****	0.0424	3.15	0.37	
MAY 27,85	MAY 26,85	1392.0	10.5	4.52	4.70	*****	0.0426	1.30	0.17	
MAY 28,85	MAY 27,85	377.0	9.8	4.52	4.76	*****	0.0411	1.15	0.17	
MAY 31,85	MAY 30,85	176.0	48.2	4.03	4.13	*****	0.1120	5.45	0.79	
MAY 31,85	MAY 31,85	481.0	25.4	4.93	UG 5.67	*****	0.0265	4.90	0.69	
MAY 31,85	MAY 31,85	481.0	25.4	4.93	UG 5.67	*****	0.0265	4.90	0.69	
JUN 1,85	MAY 31,85	481.0	25.4	4.93	UG 5.67	*****	0.0265	4.90	0.69	
JUN 8,85	JUN 7,85	31.0	61.2	*****	4.05	*****	0.1120	7.10	1.76	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM #05									
PAGE : 6									
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L	
MAR 6,85	MAR 5,85	*****	*****	*****	*****	*****	*****	*****	
MAR 8,85	MAR 7,85	*****	0.90	*****	*****	*****	*****	*****	
MAR 9,85	MAR 8,85	*****	0.57	*****	*****	*****	UG 2.250	UG 0.2291	
MAR 12,85	MAR 11,85	0.33	0.13	0.040	0.025	0.055	1.500	0.1175	
MAR 13,85	MAR 12,85	0.25	0.15	0.025	0.045	0.085	0.225	0.0490	
MAR 14,85	MAR 13,85	*****	*****	*****	*****	*****	0.340	0.0562	
MAR 15,85	MAR 14,85	*****	*****	*****	*****	*****	*****	*****	
MAR 17,85	MAR 16,85	*****	*****	*****	*****	*****	*****	*****	
MAR 28,85	MAR 27,85	D 0.84	0.20	D 0.110	<T 0.015	0.085	0.135	0.0135	
MAR 29,85	MAR 28,85	*****	*****	*****	*****	*****	0.135	0.0347	
APR 1,85	MAR 31,85	0.28	0.15	<T 0.015	<T 0.005	0.060	0.150	0.0457	
APR 2,85	APR 1,85	0.21	0.14	<T 0.010	<T 0.010	0.050	0.270	0.0550	
APR 3,85	APR 2,85	*****	*****	*****	*****	*****	<T 0.005	LG 0.0001	
APR 4,85	APR 3,85	<W 0.01	0.07	<W 0.005	<T 0.020	0.030	0.200	0.0363	
APR 5,85	APR 4,85	0.22	0.10	0.020	0.030	0.030	0.320	0.0309	
APR 6,85	APR 5,85	0.45	0.29	0.060	0.050	0.165	0.315	0.0550	
APR 7,85	APR 6,85	*****	*****	*****	*****	*****	*****	*****	
APR 11,85	APR 10,85	*****	B 1.35	*****	*****	*****	*****	*****	
APR 14,85	APR 13,85	*****	D 0.35	*****	*****	*****	*****	LG 0.0000	
APR 15,85	APR 14,85	*****	0.89	*****	*****	*****	1.350	UG 0.2089	
APR 16,85	APR 15,85	UG 1.44	0.51	0.210	0.030	0.235	1.050	UG 0.2630	
APR 18,85	APR 17,85	UG 1.37	0.21	0.175	0.050	0.045	2.150	0.0575	
APR 19,85	APR 18,85	UG 1.39	0.23	0.125	0.045	0.145	1.430	0.0234	
APR 20,85	APR 19,85	0.49	0.20	0.095	0.040	0.065	1.150	0.0089	
APR 28,85	APR 27,85	0.35	0.15	0.040	0.090	0.120	1.355	0.0891	
MAY 5,85	MAY 4,85	1.05	0.19	D 0.215	0.065	<T 0.010	0.335	0.0174	
MAY 6,85	MAY 5,85	*****	*****	*****	*****	*****	1.100	0.0209	
MAY 7,85	MAY 6,85	*****	*****	*****	*****	*****	*****	*****	
MAY 8,85	MAY 7,85	*****	0.10	*****	*****	*****	*****	*****	
MAY 16,85	MAY 15,85	*****	*****	*****	*****	*****	0.075	0.0245	
MAY 18,85	MAY 17,85	*****	*****	*****	*****	*****	*****	UG 0.4169	
MAY 19,85	MAY 18,85	0.42	0.08	0.065	<W 0.005	0.075	<T 0.010	0.0091	
MAY 20,85	MAY 19,85	U 9.90	U 0.68	U 1.800	U 0.475	U 0.175	U 3.000	U 0.0000	
MAY 21,85	MAY 20,85	0.96	0.14	0.160	0.050	<T 0.015	1.000	0.0224	
MAY 26,85	MAY 25,85	0.68	0.13	0.130	D 0.100	0.110	0.585	0.0138	
MAY 27,85	MAY 26,85	0.10	<W 0.01	<T 0.005	<T 0.020	<T 0.005	0.225	0.0200	
MAY 28,85	MAY 27,85	0.08	<W 0.01	<T 0.005	<T 0.015	<T 0.010	0.220	0.0174	
MAY 31,85	MAY 30,85	0.48	0.11	0.050	0.045	0.050	0.820	0.0741	
JUN 1,85	MAY 31,85	UG 1.88	0.18	0.385	0.185	0.090	0.650	LG 0.0021	
JUN 8,85	JUN 7,85	*****	0.44	*****	*****	*****	*****	0.0891	

ONTARIO MINISTRY OF THE ENVIRONMENT
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STATION NAME : RAVEN LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JUN 14,85	JUN 13,85	900 930	300 400	1	0.6	1	41165	2	1	78	AQ
JUN 16,85	JUN 15,85	930 900	600 900	1	3.4	1	41166	2	1	94	
JUN 17,85	JUN 16,85	900 900	300 400	1	1.7	1	41167	2	1	89	
JUN 18,85	JUN 17,85	900 900	2000 2230	1	7.6	1	41168	2	1	103	
JUN 19,85	JUN 18,85	900 900	1800 1830	1	1.0	1	41169	2	1	84	C
JUN 21,85	JUN 20,85	900 900	1500 1630	1	1.0	1	41170	2	1	76	
JUN 23,85	JUN 22,85	900 900	1500 1900	1	13.0	1	41171	2	1	101	
JUN 24,85	JUN 23,85	900 930	2130 2300	1	3.4	1	41174	2	1	90	C JHM
JUN 29,85	JUN 28,85	930 900	2125 2145	1	0.3	1	41175	2	1	****	E
JUL 3,85	JUL 2,85	900 900	700 900	1	3.0	1	41177	2	1	93	
JUL 7,85	JUL 6,85	730 800	730 2000	1	5.8	1	41178	2	1	98	
JUL 11,85	JUL 10,85	800 900	**** ****	1	0.3	1	41179	2	1	****	E
JUL 14,85	JUL 13,85	900 900	350 630	1	7.4	1	41180	2	1	107	C H
JUL 15,85	JUL 14,85	900 900	400 600	1	3.2	1	41181	2	1	94	
JUL 16,85	JUL 15,85	900 900	1000 1145	1	5.6	1	41182	2	1	98	J
JUL 17,85	JUL 16,85	900 800	1300 1320	1	0.2	1	41183	2	1	****	E
JUL 22,85	JUL 21,85	800 900	2250 230	1	8.0	1	41184	2	1	98	C
JUL 23,85	JUL 22,85	900 900	1700 1715	1	0.1	1	41185	2	1	****	E
JUL 26,85	JUL 25,85	900 900	200 500	1	4.0	1	41186	2	1	101	HM
JUL 29,85	JUL 28,85	900 900	1130 1230	1	0.4	1	41187	2	1	****	E
AUG 1,85	JUL 31,85	900 900	1300 1500	1	1.8	1	41188	2	1	68	C H
AUG 7,85	AUG 6,85	900 900	1130 1430	1	0.6	1	41190	2	1	78	
AUG 8,85	AUG 7,85	900 900	1300 1500	1	14.8	1	41191	2	1	100	
AUG 11,85	AUG 10,85	900 900	1930 2200	1	4.6	1	41194	2	1	94	
AUG 14,85	AUG 13,85	900 900	1800 1812	1	0.4	1	41195	2	1	****	E
AUG 15,85	AUG 14,85	900 930	1740 1930	1	5.7	1	41196	2	1	102	
AUG 16,85	AUG 15,85	930 900	1000 1400	1	9.4	1	41198	2	1	98	HCM
AUG 19,85	AUG 18,85	900 900	1400 1700	1	22.6	1	41199	2	1	98	
AUG 21,85	AUG 20,85	900 900	700 850	1	0.6	1	41200	2	1	83	
AUG 24,85	AUG 23,85	900 910	400 900	1	6.2	1	41201	2	1	98	
AUG 25,85	AUG 24,85	910 930	900 1030	1	14.0	1	41202	2	1	104	
AUG 26,85	AUG 25,85	930 900	1000 1025	1	0.2	1	41203	2	1	****	E
AUG 27,85	AUG 26,85	900 915	1730 1900	1	2.2	1	41204	2	1	100	A
AUG 28,85	AUG 27,85	915 900	1800 2000	1	4.6	1	41205	2	1	97	
AUG 29,85	AUG 28,85	900 915	1300 1400	1	1.7	1	41206	2	1	92	C
AUG 30,85	AUG 29,85	915 830	1840 1900	1	43.0	1	41207	2	1	104	C
AUG 31,85	AUG 30,85	830 900	830 2400	1	4.4	1	41208	2	1	95	
SEP 2,85	SEP 1,85	900 900	2045 2220	1	4.1	1	41209	2	1	106	C
SEP 3,85	SEP 2,85	900 930	500 600	1	0.6	1	41210	2	1	96	
SEP 4,85	SEP 3,85	930 900	2150 2220	1	42.6	1	41211	2	1	101	

ONTARIO MINISTRY OF THE ENVIRONMENT
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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUN 14,85	JUN 13,85	30.0	78.6	*****	4.06	*****	0.1400	UG 16.25	0.86
JUN 16,85	JUN 15,85	206.0	86.4	3.75	3.84	*****	0.2040	7.40	1.25
JUN 17,85	JUN 16,85	98.0	D 84.2	*****	3.75	*****	0.1970	D 8.70	0.77
JUN 18,85	JUN 17,85	502.0	27.3	4.23	4.38	*****	0.0706	2.60	0.33
JUN 19,85	JUN 18,85	54.0	7.5	*****	UG 6.87	*****	LG 0.0143	0.80	0.16
JUN 21,85	JUN 20,85	49.0	6.8	*****	UG 6.75	*****	0.0172	1.20	0.13
JUN 23,85	JUN 22,85	843.0	18.7	4.30	4.50	*****	0.0593	2.00	0.23
JUN 24,85	JUN 23,85	197.0	26.5	UG 5.23	UG 6.55	*****	0.0201	4.70	D 1.06
JUN 29,85	JUN 28,85	*****	*****	*****	*****	*****	*****	*****	*****
JUL 3,85	JUL 2,85	180.0	86.1	3.76	3.80	*****	0.2220	8.60	1.34
JUL 7,85	JUL 6,85	367.0	25.7	4.30	4.42	*****	0.0641	2.40	0.48
JUL 11,85	JUL 10,85	*****	*****	*****	*****	*****	*****	*****	*****
JUL 14,85	JUL 13,85	510.0	54.9	3.92	4.06	*****	0.1350	6.20	0.86
JUL 15,85	JUL 14,85	193.0	27.4	4.21	4.48	*****	0.0638	3.00	0.56
JUL 16,85	JUL 15,85	354.0	10.8	4.50	4.93	*****	0.0308	0.70	0.26
JUL 17,85	JUL 16,85	*****	*****	*****	*****	*****	*****	*****	*****
JUL 22,85	JUL 21,85	505.0	16.5	4.42	4.61	*****	0.0454	2.50	0.26
JUL 23,85	JUL 22,85	*****	*****	*****	*****	*****	*****	*****	*****
JUL 26,85	JUL 25,85	259.0	14.7	4.49	4.57	*****	0.0519	1.45	0.22
JUL 29,85	JUL 28,85	*****	*****	*****	*****	*****	*****	*****	*****
AUG 1,85	JUL 31,85	79.0	20.0	*****	UG 5.80	*****	0.0234	3.45	0.73
AUG 7,85	AUG 6,85	30.0	*****	*****	LG 3.30	*****	UG 0.5840	*****	*****
AUG 8,85	AUG 7,85	958.0	24.0	4.44	4.45	*****	0.0593	D 2.80	0.45
AUG 11,85	AUG 10,85	280.0	67.6	3.88	3.85	*****	0.1710	6.60	0.80
AUG 14,85	AUG 13,85	*****	*****	*****	*****	*****	*****	*****	*****
AUG 15,85	AUG 14,85	375.0	34.9	4.11	4.12	*****	0.0954	2.75	0.55
AUG 16,85	AUG 15,85	596.0	16.3	4.25	4.33	*****	0.0766	2.35	0.23
AUG 19,85	AUG 18,85	1428.0	39.0	4.05	4.11	*****	0.1080	4.00	0.44
AUG 21,85	AUG 20,85	32.0	*****	*****	4.89	*****	0.0337	*****	*****
AUG 24,85	AUG 23,85	390.0	66.4	3.87	3.89	*****	0.1670	4.20	1.56
AUG 25,85	AUG 24,85	938.0	67.3	3.84	3.85	*****	0.1790	6.40	0.60
AUG 26,85	AUG 25,85	*****	*****	*****	*****	*****	*****	*****	*****
AUG 27,85	AUG 26,85	142.0	A 92.0	3.70	3.69	*****	0.2460	6.85	1.37
AUG 28,85	AUG 27,85	287.0	6.0	4.78	5.17	*****	0.0239	0.60	0.08
AUG 29,85	AUG 28,85	101.0	32.0	4.41	4.51	*****	0.0667	6.10	0.37
AUG 30,85	AUG 29,85	2892.0	29.5	4.21	4.25	*****	0.0806	2.75	0.27
AUG 31,85	AUG 30,85	270.0	16.1	4.42	4.51	*****	0.0523	1.60	0.12
SEP 2,85	SEP 1,85	281.0	> 100.0	D 3.71	3.72	*****	0.2440	9.75	1.41
SEP 3,85	SEP 2,85	37.0	> 100.0	*****	3.67	*****	UG 0.2800	*****	1.46
SEP 4,85	SEP 3,85	2771.0	12.0	4.59	4.73	*****	0.0382	1.40	0.13

ONTARIO MINISTRY OF THE ENVIRONMENT
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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUN 14,85	JUN 13,85	*****	0.29	*****	*****	*****	*****	0.0871
JUN 16,85	JUN 15,85	0.23	0.12	0.035	0.050	0.040	0.725	0.1445
JUN 17,85	JUN 16,85	0.19	D 0.11	0.015	0.035	0.030	1.100	0.1778
JUN 18,85	JUN 17,85	0.09	<W 0.01	<T 0.010	0.025	0.020	0.300	0.0417
JUN 19,85	JUN 18,85	*****	<T 0.06	*****	*****	*****	0.335	LG 0.0001
JUN 21,85	JUN 20,85	*****	0.08	*****	*****	*****	0.050	LG 0.0002
JUN 23,85	JUN 22,85	0.23	<W 0.01	0.020	0.025	<T 0.005	0.095	0.0316
JUN 24,85	JUN 23,85	B 2.58	D 0.27	D 0.445	UG 0.245	D 0.100	1.050	LG 0.0003
JUN 29,85	JUN 28,85	*****	*****	*****	*****	*****	*****	*****
JUL 3,85	JUL 2,85	0.61	0.30	0.120	0.060	0.050	0.510	0.1585
JUL 7,85	JUL 6,85	0.23	0.07	0.050	0.035	<T 0.020	D 0.335	0.0380
JUL 11,85	JUL 10,85	*****	*****	*****	*****	*****	*****	*****
JUL 14,85	JUL 13,85	UG 1.61	0.17	0.205	0.150	0.085	0.710	0.0871
JUL 15,85	JUL 14,85	0.32	0.13	0.065	0.055	0.055	0.595	0.0331
JUL 16,85	JUL 15,85	0.18	<T 0.04	0.035	0.025	<T 0.020	0.180	0.0117
JUL 17,85	JUL 16,85	*****	*****	*****	*****	*****	*****	*****
JUL 22,85	JUL 21,85	*****	0.09	*****	*****	*****	0.495	0.0245
JUL 23,85	JUL 22,85	*****	*****	*****	*****	*****	*****	*****
JUL 26,85	JUL 25,85	0.31	<T 0.05	0.020	0.020	0.045	0.180	0.0269
JUL 29,85	JUL 28,85	*****	*****	*****	*****	*****	*****	*****
AUG 1,85	JUL 31,85	UG 1.65	0.31	0.200	0.105	0.135	0.605	LG 0.0016
AUG 7,85	AUG 6,85	*****	*****	*****	*****	*****	*****	UG 0.5012
AUG 8,85	AUG 7,85	0.30	<W 0.01	0.025	<T 0.015	<T 0.015	0.660	0.0355
AUG 11,85	AUG 10,85	0.50	0.16	0.070	0.025	0.020	0.485	0.1413
AUG 14,85	AUG 13,85	*****	*****	*****	*****	*****	*****	*****
AUG 15,85	AUG 14,85	0.29	0.08	0.035	<T 0.010	<T 0.015	0.140	0.0759
AUG 16,85	AUG 15,85	0.60	<T 0.06	0.065	<T 0.015	<T 0.010	D 0.185	0.0468
AUG 19,85	AUG 18,85	0.15	0.09	0.020	0.045	0.025	0.335	0.0776
AUG 21,85	AUG 20,85	*****	*****	*****	*****	*****	*****	0.0129
AUG 24,85	AUG 23,85	0.60	0.35	0.150	0.095	0.085	0.350	0.1288
AUG 25,85	AUG 24,85	0.10	0.11	<T 0.010	0.100	0.030	0.360	0.1413
AUG 26,85	AUG 25,85	*****	*****	*****	*****	*****	*****	*****
AUG 27,85	AUG 26,85	0.17	0.33	0.020	0.080	0.060	0.300	0.2042
AUG 28,85	AUG 27,85	0.06	0.09	<T 0.010	0.065	0.070	0.100	0.0068
AUG 29,85	AUG 28,85	0.22	0.09	0.045	0.175	0.070	1.550	0.0309
AUG 30,85	AUG 29,85	0.06	<T 0.04	<T 0.005	0.030	<T 0.010	0.270	0.0562
AUG 31,85	AUG 30,85	<T 0.03	0.03	<T 0.005	0.025	0.025	0.150	0.0309
SEP 2,85	SEP 1,85	0.74	0.48	0.130	0.190	D 0.165	0.805	0.1905
SEP 3,85	SEP 2,85	*****	0.47	*****	*****	*****	1.300	0.2138
SEP 4,85	SEP 3,85	0.08	<T 0.04	0.020	<T 0.020	0.030	0.200	0.0186

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
SEP 5,85	SEP 4,85	900 1000	949 1100	1	3.1	1	41214	2	1	95	
SEP 6,85	SEP 5,85	1000 900	2400 1900	1	****	1	41215	2	1	104	
SEP 9,85	SEP 8,85	800 900	1300 1320	1	0.4	1	41216	2	1	****	E
SEP 10,85	SEP 9,85	900 900	1747 1830	1	2.3	1	41217	2	1	94	
SEP 22,85	SEP 21,85	900 930	1000 1015	1	0.1	1	41220	2	1	****	E
SEP 24,85	SEP 23,85	930 900	200 850	1	13.1	1	41221	2	1	97	
SEP 25,85	SEP 24,85	900 915	920 1010	1	1.5	1	41222	2	1	76	
SEP 27,85	SEP 26,85	915 900	900 1130	1	16.6	1	41223	2	1	103	
OCT 1,85	SEP 30,85	900 900	1700 200	1	16.4	1	41224	2	1	U 103	G
OCT 5,85	OCT 4,85	900 910	2115 2200	1	4.0	1	41225	2	1	88	
OCT 6,85	OCT 5,85	910 915	900 930	1	7.2	1	41226	2	1	100	
OCT 7,85	OCT 6,85	915 930	2140 2320	1	2.5	1	41227	2	1	91	
OCT 9,85	OCT 8,85	930 900	1800 1900	1	8.4	1	41228	2	1	101	
OCT 10,85	OCT 9,85	900 915	****	1	8.0	1	41229	2	1	98	
OCT 11,85	OCT 10,85	915 900	840 1200	1	0.3	1	41230	2	1	****	E
OCT 13,85	OCT 12,85	900 915	1500 2200	1	17.2	1	41231	2	1	98	
OCT 15,85	OCT 14,85	915 915	946 1030	1	3.2	1	41234	2	1	97	
OCT 16,85	OCT 15,85	915 915	946 1030	1	3.7	1	41235	2	1	91	
OCT 17,85	OCT 16,85	915 900	1400 1415	1	0.4	1	41236	2	1	****	E
OCT 19,85	OCT 18,85	900 900	1325 2000	1	7.2	1	41237	2	1	100	
OCT 24,85	OCT 23,85	900 920	700 900	1	0.7	1	41238	2	1	82	
OCT 25,85	OCT 24,85	920 915	900 1320	1	5.1	1	41239	2	1	97	
OCT 27,85	OCT 26,85	900 845	1200 330	1	4.0	1	41241	2	1	97	
NOV 3,85	NOV 2,85	900 900	2012 2040	1	0.7	2	41243	2	1	207	N
NOV 4,85	NOV 3,85	900 900	1020 800	1	16.2	2	41244	2	1	101	C
NOV 5,85	NOV 4,85	900 900	900 2330	1	16.5	2	41245	2	1	104	C
NOV 7,85	NOV 6,85	900 900	1700 1215	1	2.3	2	41248	2	1	73	
NOV 8,85	NOV 7,85	900 900	900 1655	1	5.5	2	41249	2	1	103	
NOV 9,85	NOV 8,85	900 900	1230 1310	3	0.7	2	41250	2	1	U 55	FI
NOV 10,85	NOV 9,85	900 900	900 300	2	17.3	2	41251	2	1	88	
NOV 13,85	NOV 12,85	900 915	900 1030	1	17.3	2	41254	2	1	97	
NOV 15,85	NOV 14,85	915 915	900 1330	3	5.4	2	41256	2	1	103	
NOV 17,85	NOV 16,85	915 855	1200 2200	1	4.5	2	41257	2	1	118	
NOV 19,85	NOV 18,85	915 850	****	1	8.3	2	41259	2	1	112	
NOV 20,85	NOV 19,85	850 900	1140 1630	1	9.2	2	41260	2	1	113	
NOV 22,85	NOV 21,85	900 910	1040 1600	2	1.4	2	41261	2	1	****	EFIK
NOV 23,85	NOV 22,85	910 910	900 1630	2	6.8	2	41262	2	1	U 48	F
NOV 25,85	NOV 24,85	910 900	800 1230	2	0.6	2	41263	2	1	****	EFI
NOV 26,85	NOV 25,85	900 915	600 900	2	1.7	2	41264	2	1	U 99	F
NOV 27,85	NOV 26,85	915 900	900 1230	3	****	2	41265	2	1	****	CH E

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 5,85	SEP 4,85	189.0	24.0	4.37	4.47	*****	0.0660	3.30	0.33
SEP 6,85	SEP 5,85	7829.0	22.2	4.32	4.40	*****	0.0722	2.30	0.26
SEP 9,85	SEP 8,85	*****	*****	*****	*****	*****	*****	*****	*****
SEP 10,85	SEP 9,85	140.0	19.7	4.39	4.49	*****	0.0613	D 1.90	0.44
SEP 22,85	SEP 21,85	*****	*****	*****	*****	*****	*****	*****	*****
SEP 24,85	SEP 23,85	822.0	13.4	4.58	4.60	*****	0.0431	1.30	0.17
SEP 25,85	SEP 24,85	74.0	12.7	*****	4.83	*****	0.0381	1.80	0.17
SEP 27,85	SEP 26,85	1098.0	32.3	4.15	4.20	*****	0.0956	3.00	0.33
OCT 1,85	SEP 30,85	1089.0	48.8	3.98	4.04	*****	0.1290	4.40	0.70
OCT 5,85	OCT 4,85	227.0	67.0	3.87	3.88	*****	0.1670	4.70	1.41
OCT 6,85	OCT 5,85	462.0	8.4	4.87	4.94	*****	0.0285	0.80	0.10
OCT 7,85	OCT 6,85	146.0	6.7	UG 5.02	5.14	*****	0.0252	0.75	LG 0.06
OCT 9,85	OCT 8,85	546.0	46.5	4.02	4.04	*****	0.1160	4.75	0.57
OCT 10,85	OCT 9,85	505.0	50.9	3.98	4.01	*****	0.1250	4.25	0.82
OCT 11,85	OCT 10,85	*****	*****	*****	*****	*****	*****	*****	*****
OCT 13,85	OCT 12,85	1085.0	33.5	4.15	4.18	*****	0.0865	3.10	0.44
OCT 15,85	OCT 14,85	201.0	18.1	4.40	4.45	*****	0.0536	1.55	0.27
OCT 16,85	OCT 15,85	216.0	13.2	4.59	4.66	*****	0.0406	1.45	D 0.22
OCT 17,85	OCT 16,85	*****	*****	*****	*****	*****	*****	*****	*****
OCT 19,85	OCT 18,85	465.0	43.8	4.04	4.09	*****	0.1110	4.05	0.72
OCT 24,85	OCT 23,85	37.0	39.4	*****	4.17	*****	0.0975	3.35	0.73
OCT 25,85	OCT 24,85	318.0	*****	4.40	*****	*****	*****	*****	*****
OCT 27,85	OCT 26,85	250.0	*****	4.45	*****	*****	*****	*****	*****
NOV 3,85	NOV 2,85	93.0	26.3	*****	4.37	*****	0.0705	1.95	0.51
NOV 4,85	NOV 3,85	1056.0	8.2	UG 4.89	5.07	*****	0.0259	0.60	0.13
NOV 5,85	NOV 4,85	1100.0	LG 4.6	UG 5.06	UG 5.26	*****	0.0214	LG 0.20	<T 0.04
NOV 7,85	NOV 6,85	108.0	65.4	*****	3.89	*****	0.1620	4.80	1.31
NOV 8,85	NOV 7,85	364.0	45.0	4.10	4.09	*****	0.1120	3.70	0.83
NOV 9,85	NOV 8,85	25.0	*****	*****	B 7.67	*****	LG 0.0128	*****	*****
NOV 10,85	NOV 9,85	982.0	16.4	4.52	4.54	*****	0.0478	0.75	0.39
NOV 13,85	NOV 12,85	1079.0	16.1	4.50	4.54	*****	0.0494	1.35	0.12
NOV 15,85	NOV 14,85	357.0	10.2	4.62	4.67	*****	0.0414	1.10	0.09
NOV 17,85	NOV 16,85	341.0	18.8	4.45	D 4.50	*****	0.0534	1.25	0.42
NOV 19,85	NOV 18,85	596.0	13.4	4.52	4.61	*****	0.0438	1.00	0.15
NOV 20,85	NOV 19,85	671.0	32.9	4.16	4.22	*****	0.0860	2.55	0.50
NOV 22,85	NOV 21,85	*****	*****	*****	*****	*****	*****	*****	*****
NOV 23,85	NOV 22,85	210.0	9.0	4.76	4.85	*****	0.0326	0.55	0.11
NOV 25,85	NOV 24,85	*****	*****	*****	*****	*****	*****	*****	*****
NOV 26,85	NOV 25,85	108.0	LG 6.1	UG 4.95	5.07	*****	0.0234	LG 0.20	0.11
NOV 27,85	NOV 26,85	4.0	*****	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM

#05

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 5,85	SEP 4,85	0.21	0.07	0.030	<T 0.015	0.065	0.640	0.0339
SEP 6,85	SEP 5,85	0.12	0.10	0.015	<T 0.010	0.030	0.265	0.0398
SEP 9,85	SEP 8,85	*****	*****	*****	*****	*****	*****	*****
SEP 10,85	SEP 9,85	0.28	0.11	0.030	0.025	D 0.090	0.355	0.0324
SEP 22,85	SEP 21,85	*****	*****	*****	*****	*****	*****	*****
SEP 24,85	SEP 23,85	0.16	<T 0.04	0.020	<T 0.015	0.020	0.115	0.0251
SEP 25,85	SEP 24,85	0.34	0.21	0.045	0.135	0.205	0.130	0.0148
SEP 27,85	SEP 26,85	0.19	D 0.09	D 0.025	D 0.030	D 0.025	0.155	0.0631
OCT 1,85	SEP 30,85	0.34	0.17	0.060	0.050	0.055	0.320	0.0912
OCT 5,85	OCT 4,85	D 0.50	D 0.33	0.055	0.080	D 0.060	0.365	0.1318
OCT 6,85	OCT 5,85	0.05	<T 0.03	<T 0.005	<T 0.010	<T 0.015	0.125	0.0115
OCT 7,85	OCT 6,85	0.14	<T 0.03	<T 0.010	<T 0.010	0.020	0.100	0.0072
OCT 9,85	OCT 8,85	0.41	0.13	0.045	0.060	0.035	0.245	0.0912
OCT 10,85	OCT 9,85	0.12	0.33	0.035	0.050	0.135	0.485	0.0977
OCT 11,85	OCT 10,85	*****	*****	*****	*****	*****	*****	*****
OCT 13,85	OCT 12,85	<T 0.02	0.12	<T 0.010	<T 0.010	0.050	0.275	0.0661
OCT 15,85	OCT 14,85	<W 0.01	<T 0.06	<T 0.005	<T 0.015	0.050	0.120	0.0355
OCT 16,85	OCT 15,85	<W 0.01	<T 0.02	<T 0.005	<T 0.020	0.035	0.205	0.0219
OCT 17,85	OCT 16,85	*****	*****	*****	*****	*****	*****	*****
OCT 19,85	OCT 18,85	0.18	0.13	0.025	0.060	0.025	0.425	0.0813
OCT 24,85	OCT 23,85	*****	0.38	*****	*****	*****	0.210	0.0676
OCT 25,85	OCT 24,85	*****	*****	*****	*****	*****	*****	*****
OCT 27,85	OCT 26,85	*****	*****	*****	*****	*****	*****	*****
NOV 3,85	NOV 2,85	0.32	0.13	0.020	0.060	0.115	0.165	0.0427
NOV 4,85	NOV 3,85	<T 0.02	<T 0.05	<T 0.005	<T 0.010	0.060	0.105	0.0085
NOV 5,85	NOV 4,85	<T 0.01	<T 0.03	<W 0.005	<W 0.005	0.025	0.015	LG 0.0055
NOV 7,85	NOV 6,85	0.44	0.32	0.045	0.105	0.105	0.440	0.1288
NOV 8,85	NOV 7,85	0.27	0.26	0.020	0.040	0.040	0.580	0.0813
NOV 9,85	NOV 8,85	*****	*****	*****	*****	*****	*****	*****
NOV 10,85	NOV 9,85	*****	<T 0.05	0.020	<T 0.010	0.025	0.130	0.0288
NOV 13,85	NOV 12,85	*****	<T 0.05	<T 0.010	<T 0.015	0.030	0.085	0.0288
NOV 15,85	NOV 14,85	*****	<T 0.05	0.040	0.045	0.045	<W 0.005	0.0214
NOV 17,85	NOV 16,85	0.27	0.12	0.025	0.020	0.045	0.150	D 0.0316
NOV 19,85	NOV 18,85	0.09	<T 0.06	<T 0.005	<W 0.005	0.025	0.020	0.0245
NOV 20,85	NOV 19,85	0.12	0.20	0.030	0.055	0.130	0.215	0.0603
NOV 22,85	NOV 21,85	*****	*****	*****	*****	*****	*****	*****
NOV 23,85	NOV 22,85	0.06	<T 0.05	<T 0.010	<W 0.005	0.020	0.015	0.0141
NOV 25,85	NOV 24,85	*****	*****	*****	*****	*****	*****	*****
NOV 26,85	NOV 25,85	<T 0.01	0.07	<T 0.005	<T 0.005	0.050	<W 0.005	0.0085
NOV 27,85	NOV 26,85	*****	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
NOV 28,85	NOV 27,85	900 910	500 730	2	0.8	2	41266	2	1	****	EFIK
DEC 1,85	NOV 30,85	900 915	1230 2100	1	0.6	2	41268	2	1	****	EF
DEC 2,85	DEC 1,85	915 920	1730 2100	3	6.2	2	41269	2	1	103	
DEC 3,85	DEC 2,85	920 900	900 1300	2	2.3	2	41270	2	1	****	EF
DEC 5,85	DEC 4,85	900 900	1455 1640	2	0.1	2	41271	2	1	****	E
DEC 9,85	DEC 8,85	900 925	900 1400	1	1.0	2	41274	2	1	92	
DEC 10,85	DEC 9,85	925 900	2100 2400	2	****	2	41275	2	1	****	
DEC 11,85	DEC 10,85	900 915	900 1700	2	3.8	2	41276	2	1	52	
DEC 12,85	DEC 11,85	915 840	1930 2330	2	2.0	2	41278	2	1	96	M
DEC 13,85	DEC 12,85	840 900	1100 1800	2	0.8	2	41279	2	1	56	
DEC 14,85	DEC 13,85	900 900	1645 2030	2	1.2	2	41280	2	1	63	M
DEC 15,85	DEC 14,85	900 915	900 1030	2	1.3	2	41281	2	1	28	N
DEC 16,85	DEC 15,85	915 900	****	2	0.3	2	41282	2	1	****	
DEC 17,85	DEC 16,85	915 915	900 1630	2	1.6	2	41283	2	1	45	N
DEC 19,85	DEC 18,85	915 930	1000 1200	2	0.8	2	41284	2	1	58	
DEC 20,85	DEC 19,85	930 900	1440 230	2	0.4	2	41285	2	1	****	E
DEC 21,85	DEC 20,85	900 915	1900 2300	2	1.0	2	41286	2	1	109	
DEC 22,85	DEC 21,85	915 915	1520 2000	2	0.7	2	41287	2	1	80	
DEC 23,85	DEC 22,85	915 915	900 1630	2	6.6	2	41288	2	1	49	N
DEC 24,85	DEC 23,85	915 920	800 1000	2	6.0	2	41289	2	1	68	
DEC 27,85	DEC 26,85	920 915	1750 2300	2	6.4	2	41290	2	1	52	
DEC 30,85	DEC 29,85	830 910	830 900	2	1.8	2	41292	2	1	69	
DEC 31,85	DEC 30,85	910 900	900 1000	2	2.4	2	41293	2	1	28	N
JAN 1,86	DEC 31,85	900 910	1200 1500	2	1.2	2	41294	2	1	50	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM

#05

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
NOV 28,85	NOV 27,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 1,85	NOV 30,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 2,85	DEC 1,85	411.0	11.2	4.38	4.70	*****	0.0379	0.90	0.09
DEC 3,85	DEC 2,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 5,85	DEC 4,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 9,85	DEC 8,85	59.0	*****	*****	*****	*****	*****	*****	*****
DEC 10,85	DEC 9,85	16.0	*****	*****	*****	*****	*****	*****	*****
DEC 11,85	DEC 10,85	127.0	25.6	4.29	4.33	*****	0.0717	1.55	0.49
DEC 12,85	DEC 11,85	124.0	16.1	4.52	4.56	*****	0.0499	0.50	0.39
DEC 13,85	DEC 12,85	29.0	37.1	*****	4.29	*****	0.0848	3.10	0.66
DEC 14,85	DEC 13,85	49.0	15.7	*****	4.62	*****	0.0458	0.25	0.56
DEC 15,85	DEC 14,85	24.0	*****	*****	4.46	*****	0.0625	*****	*****
DEC 16,85	DEC 15,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 17,85	DEC 16,85	47.0	9.0	*****	UG 6.62	*****	LG 0.0146	0.40	D 0.46
DEC 19,85	DEC 18,85	30.0	10.3	*****	UG 7.10	*****	LG 0.0134	0.35	0.36
DEC 20,85	DEC 19,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 21,85	DEC 20,85	70.0	37.1	*****	4.06	*****	0.1030	0.35	1.18
DEC 22,85	DEC 21,85	36.0	16.6	*****	D 4.55	*****	0.0458	0.30	0.54
DEC 23,85	DEC 22,85	208.0	26.8	4.35	4.31	*****	0.0711	1.65	0.55
DEC 24,85	DEC 23,85	263.0	26.2	4.34	4.29	*****	0.0686	1.00	0.65
DEC 27,85	DEC 26,85	214.0	30.2	4.26	4.20	*****	0.0783	0.55	0.85
DEC 30,85	DEC 29,85	80.0	10.1	*****	4.83	*****	0.0309	0.60	0.22
DEC 31,85	DEC 30,85	44.0	42.8	*****	4.08	*****	0.1050	2.30	1.40
JAN 1,86	DEC 31,85	39.0	15.6	*****	4.70	*****	0.0399	1.80	0.31

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
NOV 28,85	NOV 27,85	*****	*****	*****	*****	*****	*****	*****
DEC 1,85	NOV 30,85	*****	*****	*****	*****	*****	*****	*****
DEC 2,85	DEC 1,85	<T 0.03	<T 0.03	<T 0.005	<T 0.010	0.045	<T 0.005	0.0200
DEC 3,85	DEC 2,85	*****	*****	*****	*****	*****	*****	*****
DEC 5,85	DEC 4,85	*****	*****	*****	*****	*****	*****	*****
DEC 9,85	DEC 8,85	*****	*****	*****	*****	*****	*****	*****
DEC 10,85	DEC 9,85	*****	*****	*****	*****	*****	*****	*****
DEC 11,85	DEC 10,85	0.11	D 0.07	<T 0.005	<T 0.015	0.020	0.120	0.0468
DEC 12,85	DEC 11,85	0.07	0.07	<T 0.005	<T 0.010	0.025	<W 0.005	0.0275
DEC 13,85	DEC 12,85	*****	0.66	*****	*****	*****	*****	0.0513
DEC 14,85	DEC 13,85	0.27	0.14	<T 0.010	<T 0.015	0.035	<W 0.005	0.0240
DEC 15,85	DEC 14,85	*****	*****	*****	*****	*****	*****	0.0347
DEC 16,85	DEC 15,85	*****	*****	*****	*****	*****	*****	*****
DEC 17,85	DEC 16,85	*****	0.24	*****	*****	*****	0.060	LG 0.0002
DEC 19,85	DEC 18,85	*****	0.31	*****	*****	*****	*****	LG 0.0001
DEC 20,85	DEC 19,85	*****	*****	*****	*****	*****	*****	*****
DEC 21,85	DEC 20,85	0.29	0.48	0.020	<T 0.015	0.175	0.025	0.0871
DEC 22,85	DEC 21,85	*****	0.22	*****	*****	*****	*****	D 0.0282
DEC 23,85	DEC 22,85	0.18	0.25	<T 0.015	0.025	0.090	0.210	0.0490
DEC 24,85	DEC 23,85	0.08	0.18	<T 0.005	<T 0.005	0.060	0.105	0.0513
DEC 27,85	DEC 26,85	0.09	0.18	<T 0.010	<T 0.010	0.045	0.050	0.0631
DEC 30,85	DEC 29,85	0.14	0.17	0.015	<W 0.005	0.125	0.020	0.0148
DEC 31,85	DEC 30,85	0.77	0.44	0.090	0.045	0.240	0.315	0.0832
JAN 1,86	DEC 31,85	*****	0.17	*****	*****	*****	0.180	0.0200

PART V

SOUTHEASTERN REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.		PRECIP START/END HR. HR.		SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JAN 2,85	JAN 1,85	1000	1000	1230	2100	3	3.4	2	92113	2	1	66	
JAN 5,85	JAN 4,85	1000	1000	1700	2100	2	2.2	2	92114	2	1	92	
JAN 8,85	JAN 7,85	800	830	1700	2200	2	5.5	2	92115	2	1	****	FIE
JAN 13,85	JAN 12,85	800	1000	1800	2300	2	0.2	2	92116	2	1	132	N
JAN 14,85	JAN 13,85	1000	830	400	1200	2	****	2	92117	2	1	****	E
JAN 15,85	JAN 14,85	830	815	930	2200	2	7.2	2	92118	2	1	79	
JAN 17,85	JAN 16,85	800	815	400	815	2	1.7	2	92119	2	1	84	
JAN 18,85	JAN 17,85	815	830	815	1600	2	4.0	2	92120	2	1	76	D
JAN 19,85	JAN 18,85	830	1000	100	900	2	6.0	2	92121	2	1	88	D
JAN 20,85	JAN 19,85	1000	1000	1200	400	2	2.7	2	92122	2	1	35	D
JAN 24,85	JAN 23,85	800	540	830	400	2	0.2	2	92123	2	1	382	N
JAN 25,85	JAN 24,85	540	630	900	630	2	2.5	2	92124	2	1	122	N
JAN 26,85	JAN 25,85	630	900	630	100	2	2.5	2	92125	2	1	81	
JAN 27,85	JAN 26,85	900	930	1700	930	2	1.5	2	92126	2	1	83	
JAN 28,85	JAN 27,85	930	820	930	200	2	2.7	2	92127	2	1	83	
FEB 1,85	JAN 31,85	800	1000	1100	2000	2	5.2	2	92139	2	1	75	
FEB 2,85	FEB 1,85	1100	900	1800	2330	2	0.6	2	92140	2	1	104	D
FEB 9,85	FEB 8,85	730	810	800	810	2	9.4	2	92141	2	1	25	NHM
FEB 14,85	FEB 13,85	800	805	1400	530	2	2.4	2	92129	2	1	89	D
FEB 15,85	FEB 14,85	805	1600	1800	1600	2	4.4	2	92130	2	1	59	C
FEB 17,85	FEB 15,85	1600	800	1600	300	2	7.8	2	92131	2	1	34	NZ
FEB 18,85	FEB 17,85	800	1000	1000	1800	2	1.6	2	92132	2	1	81	
FEB 19,85	FEB 18,85	1000	1000	100	900	2	2.4	2	92133	2	1	89	D
FEB 21,85	FEB 20,85	800	600	1800	400	2	1.2	1	92134	2	1	63	C
FEB 22,85	FEB 21,85	600	600	100	600	1	0.3	2	92135	2	1	234	C
FEB 26,85	FEB 22,85	600	600	****	****	1	54.7	2	92136	2	1	19	NZ
FEB 28,85	FEB 27,85	600	900	630	900	2	6.2	2	92137	2	1	98	CD
MAR 2,85	MAR 1,85	800	800	1900	300	1	0.4	2	92138	2	1	214	N
MAR 6,85	MAR 4,85	800	800	1100	300	1	43.8	2	92142	2	1	56	Y
MAR 8,85	MAR 7,85	800	800	1900	300	3	2.2	2	92143	2	1	99	C
MAR 11,85	MAR 10,85	800	800	300	800	1	15.0	2	92144	2	1	****	GE
MAR 13,85	MAR 12,85	800	630	1400	300	1	2.4	2	92146	2	1	115	
MAR 17,85	MAR 16,85	630	620	100	500	2	0.3	2	92147	2	1	83	
MAR 18,85	MAR 17,85	620	630	800	1930	2	2.0	2	92148	2	1	70	
MAR 28,85	MAR 27,85	800	800	1800	2300	1	2.6	2	92149	2	1	111	C
MAR 29,85	MAR 28,85	800	1000	1300	1800	1	10.4	2	92150	2	1	99	C
APR 1,85	MAR 31,85	800	900	1100	1700	3	23.8	2	92151	2	1	95	
APR 2,85	APR 1,85	900	800	1215	2400	3	0.6	2	92152	2	1	96	CD
APR 4,85	APR 3,85	800	630	500	1900	1	7.5	2	92153	2	1	93	D
APR 5,85	APR 4,85	630	630	2200	300	1	10.0	2	92154	2	1	105	C

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 2,85	JAN 1,85	146.0	39.6	*****	4.12	0.1128	0.1100	4.40	0.90
JAN 5,85	JAN 4,85	130.0	13.5	*****	4.58	0.0472	0.0468	LG 0.25	0.56
JAN 8,85	JAN 7,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 13,85	JAN 12,85	17.0	*****	*****	4.76	0.0510	0.0508	*****	*****
JAN 14,85	JAN 13,85	2.0	*****	*****	*****	*****	*****	*****	*****
JAN 15,85	JAN 14,85	368.0	36.6	*****	4.13	0.1148	0.1140	2.95	1.04
JAN 17,85	JAN 16,85	92.0	16.8	*****	4.55	*****	0.0511	LG 0.25	0.47
JAN 18,85	JAN 17,85	195.0	17.8	*****	4.52	*****	0.0515	0.50	0.53
JAN 19,85	JAN 18,85	342.0	46.5	*****	4.05	*****	0.1230	1.30	1.25
JAN 20,85	JAN 19,85	62.0	43.9	*****	4.08	*****	0.1160	0.85	1.35
JAN 24,85	JAN 23,85	49.0	35.9	*****	4.26	*****	0.0862	2.80	1.07
JAN 25,85	JAN 24,85	196.0	44.8	*****	4.01	*****	0.1210	1.30	1.25
JAN 26,85	JAN 25,85	131.0	59.5	*****	3.90	*****	0.1520	1.95	1.68
JAN 27,85	JAN 26,85	80.0	50.9	*****	3.95	*****	0.1300	0.60	1.50
JAN 28,85	JAN 27,85	145.0	60.0	*****	3.86	*****	0.1560	1.60	1.61
FEB 1,85	JAN 31,85	252.0	30.3	*****	4.25	*****	0.0813	1.05	0.80
FEB 2,85	FEB 1,85	40.0	49.8	*****	3.94	*****	0.1410	0.50	1.63
FEB 9,85	FEB 8,85	151.0	5.0	*****	5.07	*****	0.0239	<T 0.15	0.07
FEB 14,85	FEB 13,85	138.0	> 100.0	*****	3.65	*****	0.2470	6.60	2.15
FEB 15,85	FEB 14,85	168.0	50.8	*****	3.95	*****	0.1320	1.35	1.48
FEB 17,85	FEB 15,85	171.0	71.0	*****	3.80	*****	0.1800	2.10	2.01
FEB 18,85	FEB 17,85	84.0	45.4	*****	4.07	*****	0.1130	2.85	1.17
FEB 19,85	FEB 18,85	137.0	54.0	*****	3.91	*****	0.1380	1.15	1.62
FEB 21,85	FEB 20,85	49.0	67.5	*****	3.85	*****	0.1810	1.40	1.80
FEB 22,85	FEB 21,85	45.0	> 100.0	*****	3.54	*****	0.3210	8.20	2.62
FEB 26,85	FEB 22,85	697.0	30.0	*****	4.21	*****	0.0829	2.10	0.46
FEB 28,85	FEB 27,85	392.0	37.3	*****	4.15	*****	0.0919	2.45	0.75
MAR 2,85	MAR 1,85	55.0	> 100.0	*****	3.74	*****	0.2310	8.95	UG 4.55
MAR 6,85	MAR 4,85	1574.0	17.5	*****	4.44	*****	0.0579	1.30	0.31
MAR 8,85	MAR 7,85	141.0	71.3	*****	3.96	*****	0.1690	4.60	1.76
MAR 11,85	MAR 10,85	*****	*****	*****	*****	*****	*****	*****	*****
MAR 13,85	MAR 12,85	178.0	18.3	*****	4.40	*****	0.0595	1.00	0.41
MAR 17,85	MAR 16,85	16.0	*****	*****	3.93	*****	0.1660	*****	*****
MAR 18,85	MAR 17,85	90.0	45.0	*****	4.18	*****	0.1170	3.65	1.08
MAR 28,85	MAR 27,85	186.0	40.6	*****	4.37	*****	0.0948	5.45	1.01
MAR 29,85	MAR 28,85	662.0	39.2	*****	4.21	*****	0.1070	3.90	0.67
APR 1,85	MAR 31,85	1459.0	*****	*****	4.72	*****	0.0461	*****	*****
APR 2,85	APR 1,85	37.0	55.3	*****	4.16	*****	0.1270	4.80	1.68
APR 4,85	APR 3,85	451.0	37.2	*****	4.16	*****	0.1070	3.00	0.61
APR 5,85	APR 4,85	674.0	25.8	*****	4.45	*****	0.0708	2.35	0.69

ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 2,85	JAN 1,85	0.11	0.40	0.045	0.070	0.305	0.790	0.0759
JAN 5,85	JAN 4,85	0.17	0.16	0.020	<T 0.015	0.035	0.050	0.0263
JAN 8,85	JAN 7,85	*****	*****	*****	*****	*****	*****	*****
JAN 13,85	JAN 12,85	*****	*****	*****	*****	*****	*****	0.0174
JAN 14,85	JAN 13,85	*****	*****	*****	*****	*****	*****	*****
JAN 15,85	JAN 14,85	0.25	0.33	0.035	0.060	0.070	0.540	0.0741
JAN 17,85	JAN 16,85	<T 0.04	0.18	<W 0.005	<W 0.005	0.030	*****	0.0282
JAN 18,85	JAN 17,85	0.05	0.18	<W 0.005	<T 0.010	<W 0.005	0.200	0.0302
JAN 19,85	JAN 18,85	0.05	0.28	<T 0.005	<W 0.005	0.050	0.245	0.0891
JAN 20,85	JAN 19,85	*****	0.15	*****	*****	*****	0.105	0.0832
JAN 24,85	JAN 23,85	*****	0.16	*****	*****	*****	0.710	0.0550
JAN 25,85	JAN 24,85	0.06	0.23	<W 0.005	<T 0.005	0.040	0.265	0.0977
JAN 26,85	JAN 25,85	0.14	0.20	<T 0.010	0.115	0.050	0.510	0.1259
JAN 27,85	JAN 26,85	*****	0.55	*****	*****	*****	0.070	0.1122
JAN 28,85	JAN 27,85	0.10	0.26	<T 0.005	0.080	<T 0.010	0.225	0.1380
FEB 1,85	JAN 31,85	0.09	0.28	<T 0.015	0.050	0.060	0.315	0.0562
FEB 2,85	FEB 1,85	0.20	0.27	0.080	<T 0.020	0.130	*****	0.1148
FEB 9,85	FEB 8,85	0.10	0.20	<T 0.015	0.020	0.050	LG 0.020	0.0085
FEB 14,85	FEB 13,85	0.23	UG 1.48	0.135	0.090	UG 1.000	0.670	0.2239
FEB 15,85	FEB 14,85	0.25	0.65	0.035	0.070	0.185	0.330	0.1122
FEB 17,85	FEB 15,85	0.35	0.67	0.040	0.100	0.190	0.320	0.1585
FEB 18,85	FEB 17,85	0.26	0.33	0.035	0.100	0.100	0.840	0.0851
FEB 19,85	FEB 18,85	0.22	0.43	0.030	<T 0.010	0.095	0.185	0.1230
FEB 21,85	FEB 20,85	0.48	UG 1.64	0.100	<T 0.020	0.520	*****	0.1413
FEB 22,85	FEB 21,85	*****	0.84	*****	*****	*****	*****	0.2884
FEB 26,85	FEB 22,85	0.08	0.13	<T 0.010	<W 0.005	0.050	0.190	0.0617
FEB 28,85	FEB 27,85	0.07	0.16	<T 0.015	<T 0.010	0.020	0.415	0.0708
MAR 2,85	MAR 1,85	*****	1.20	*****	*****	*****	*****	0.1820
MAR 6,85	MAR 4,85	<T 0.04	<T 0.03	<T 0.015	<T 0.015	<T 0.015	0.165	0.0363
MAR 8,85	MAR 7,85	0.27	0.17	0.040	0.060	0.095	1.050	0.1096
MAR 11,85	MAR 10,85	*****	*****	*****	*****	*****	*****	*****
MAR 13,85	MAR 12,85	0.05	<T 0.02	<T 0.010	<T 0.010	<T 0.005	0.080	0.0398
MAR 17,85	MAR 16,85	*****	*****	*****	*****	*****	*****	0.1175
MAR 18,85	MAR 17,85	0.39	0.19	0.055	0.060	0.145	0.785	0.0661
MAR 28,85	MAR 27,85	UG 1.42	0.26	0.295	0.045	0.100	0.710	0.0427
MAR 29,85	MAR 28,85	0.15	0.15	0.025	<T 0.020	0.030	0.765	0.0617
APR 1,85	MAR 31,85	*****	*****	*****	*****	*****	*****	0.0191
APR 2,85	APR 1,85	*****	0.52	*****	*****	*****	*****	0.0692
APR 4,85	APR 3,85	0.12	0.15	0.025	<W 0.005	0.025	*****	0.0692
APR 5,85	APR 4,85	0.61	0.13	0.055	<T 0.010	0.030	0.360	0.0355

ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
APR 6,85	APR 5,85	630 630	100 600	1	2.8	2	92155	2	1	131	C N
APR 9,85	APR 8,85	630 530	1200 1700	2	3.6	2	92156	2	1	156	C N
APR 11,85	APR 10,85	800 900	1800 200	3	2.7	2	92157	2	1	74	
APR 19,85	APR 18,85	530 800	600 1430	1	6.0	2	92158	2	1	110	
MAY 26,85	MAY 25,85	800 800	1400 1600	1	4.2	1	92160	2	1	102	H
MAY 27,85	MAY 26,85	800 800	100 800	1	12.4	1	92161	2	1	101	
MAY 28,85	MAY 27,85	800 800	800 1400	1	10.6	1	92162	2	1	97	
MAY 29,85	MAY 28,85	800 600	800 1900	1	3.8	1	92159	2	1	45	D NH
JUN 1,85	MAY 31,85	800 900	2000 2200	1	25.8	1	92163	2	1	105	C
JUN 6,85	JUN 5,85	700 750	830 1400	1	13.6	1	92164	2	1	101	
JUN 8,85	JUN 7,85	730 800	100 500	1	1.5	1	92166	2	1	85	CD
JUN 12,85	JUN 11,85	800 1000	2300 500	1	8.8	1	92167	2	1	103	D
JUN 14,85	JUN 13,85	800 900	1400 500	1	14.0	1	92168	2	1	96	
JUN 16,85	JUN 15,85	800 1000	200 1000	1	1.8	1	92169	2	1	96	M
JUN 17,85	JUN 16,85	1000 800	100 400	1	2.0	1	92170	2	1	101	
JUN 18,85	JUN 17,85	800 1000	2000 400	1	21.4	1	92171	2	1	105	
JUN 21,85	JUN 20,85	800 900	**** ****	1	0.5	1	92181	2	1	68	C
JUN 23,85	JUN 22,85	900 900	2200 400	1	7.1	1	92182	2	1	110	
JUN 29,85	JUN 28,85	800 630	1100 1400	1	6.4	1	92183	2	1	115	CD
JUL 3,85	JUL 2,85	800 900	2200 600	1	3.8	1	92184	2	1	100	
JUL 11,85	JUL 10,85	800 800	2000 2200	1	17.5	1	92186	2	1	105	HM
JUL 15,85	JUL 14,85	600 1000	630 800	1	1.2	1	92189	2	1	79	
JUL 16,85	JUL 15,85	1000 1200	1500 2100	1	24.8	1	92190	2	1	105	
JUL 27,85	JUL 26,85	800 800	900 1200	1	1.0	1	92191	2	1	104	C
JUL 30,85	JUL 29,85	800 750	1900 2300	1	5.5	1	92192	2	1	101	C
AUG 1,85	JUL 31,85	800 745	930 1500	1	4.0	1	92193	2	1	99	
AUG 8,85	AUG 7,85	800 900	1600 2300	1	2.0	1	92194	2	1	102	
AUG 14,85	AUG 13,85	800 1000	1630 1730	1	2.0	1	92195	2	1	17	N
AUG 16,85	AUG 15,85	800 800	830 1000	1	13.6	1	92196	2	1	110	
AUG 19,85	AUG 18,85	800 800	600 700	1	0.7	1	92198	2	1	46	AD N
AUG 25,85	AUG 24,85	730 815	730 815	1	25.0	1	92199	2	1	110	
AUG 26,85	AUG 25,85	815 815	815 1630	1	2.8	1	92200	2	1	103	
AUG 30,85	AUG 29,85	800 900	100 900	1	24.2	1	92202	2	1	104	
AUG 31,85	AUG 30,85	900 755	900 1900	1	4.5	1	92204	2	1	93	
SEP 2,85	SEP 1,85	800 850	2200 600	1	4.5	1	92205	2	1	106	C
SEP 4,85	SEP 3,85	800 900	300 800	1	8.0	1	92206	2	1	109	
SEP 6,85	SEP 5,85	800 900	1800 300	1	90.2	1	92207	2	1	96	
SEP 7,85	SEP 6,85	900 610	1300 1600	1	2.9	1	92209	2	1	124	N
SEP 10,85	SEP 9,85	800 830	1500 200	1	9.5	1	92210	2	1	104	
SEP 25,85	SEP 24,85	800 850	1000 1200	1	0.3	1	92211	2	1	83	

ONTARIO MINISTRY OF THE ENVIRONMENT
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STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
APR 6,85	APR 5,85	236.0	40.5	*****	4.31	*****	0.0848	4.35	1.03
APR 9,85	APR 8,85	361.0	22.3	*****	4.50	*****	0.0614	2.65	0.33
APR 11,85	APR 10,85	129.0	27.6	*****	4.70	*****	0.0454	2.70	1.16
APR 19,85	APR 18,85	424.0	11.3	*****	4.92	*****	0.0358	1.50	0.18
MAY 26,85	MAY 25,85	276.0	15.7	4.74	4.63	*****	0.0520	1.60	0.16
MAY 27,85	MAY 26,85	809.0	26.9	4.36	4.36	*****	0.0727	2.25	0.43
MAY 28,85	MAY 27,85	664.0	22.1	4.46	4.49	*****	0.0703	2.10	0.33
MAY 29,85	MAY 28,85	110.0	93.0	*****	4.32	*****	0.1080	15.60	2.97
JUN 1,85	MAY 31,85	1738.0	28.0	4.36	4.39	*****	0.0768	3.75	0.36
JUN 6,85	JUN 5,85	883.0	49.4	3.98	4.09	*****	0.1310	4.25	0.67
JUN 8,85	JUN 7,85	82.0	74.7	*****	3.93	*****	0.1820	6.25	1.13
JUN 12,85	JUN 11,85	586.0	16.6	4.43	4.55	*****	0.0528	1.35	0.21
JUN 14,85	JUN 13,85	866.0	14.7	4.50	4.64	*****	0.0489	1.30	0.19
JUN 16,85	JUN 15,85	111.0	64.7	*****	3.94	*****	0.1730	6.05	0.69
JUN 17,85	JUN 16,85	130.0	92.6	*****	3.80	*****	0.2330	8.85	1.09
JUN 18,85	JUN 17,85	1453.0	39.5	4.08	4.20	*****	0.1000	3.75	0.60
JUN 21,85	JUN 20,85	22.0	*****	*****	*****	*****	*****	*****	*****
JUN 23,85	JUN 22,85	501.0	55.8	3.93	3.96	*****	0.1580	5.35	0.59
JUN 29,85	JUN 28,85	474.0	32.8	4.32	4.31	*****	0.0890	3.20	0.52
JUL 3,85	JUL 2,85	244.0	80.2	3.77	3.82	*****	0.2070	6.20	0.55
JUL 11,85	JUL 10,85	1182.0	*****	*****	4.65	*****	0.0452	1.10	0.17
JUL 15,85	JUL 14,85	61.0	> 100.0	*****	3.56	*****	0.3670	13.25	1.90
JUL 16,85	JUL 15,85	1676.0	13.3	*****	4.51	*****	0.0561	1.45	0.18
JUL 27,85	JUL 26,85	67.0	*****	*****	3.87	*****	0.2120	7.80	0.83
JUL 30,85	JUL 29,85	359.0	71.8	*****	3.97	*****	0.1550	7.00	1.07
AUG 1,85	JUL 31,85	254.0	9.1	*****	4.95	*****	0.3320	0.80	0.23
AUG 8,85	AUG 7,85	131.0	33.6	*****	4.20	*****	0.0947	2.45	0.57
AUG 14,85	AUG 13,85	23.0	*****	*****	3.58	*****	0.3550	*****	*****
AUG 16,85	AUG 15,85	959.0	58.5	*****	3.92	*****	0.1770	5.80	0.62
AUG 19,85	AUG 18,85	21.0	*****	*****	LG 3.38	*****	UG 0.5590	*****	*****
AUG 25,85	AUG 24,85	1769.0	41.8	*****	4.13	*****	0.1120	3.50	0.46
AUG 26,85	AUG 25,85	185.0	*****	*****	3.76	*****	0.2380	9.10	0.71
AUG 30,85	AUG 29,85	1622.0	35.8	*****	4.18	*****	0.1010	3.55	0.29
AUG 31,85	AUG 30,85	269.0	32.8	*****	4.22	*****	0.0943	2.75	0.34
SEP 2,85	SEP 1,85	306.0	93.0	*****	3.76	*****	0.2380	8.35	0.91
SEP 4,85	SEP 3,85	561.0	29.2	*****	4.17	*****	0.1150	3.50	0.10
SEP 6,85	SEP 5,85	5593.0	14.9	*****	4.56	*****	0.0516	1.40	0.12
SEP 7,85	SEP 6,85	231.0	21.6	*****	4.46	*****	0.0642	1.35	0.29
SEP 10,85	SEP 9,85	637.0	12.8	*****	4.75	*****	0.0438	1.45	0.19
SEP 25,85	SEP 24,85	16.0	*****	*****	3.86	*****	0.1960	*****	*****

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
APR 6,85	APR 5,85	0.94	0.35	0.125	0.110	0.200	0.650	0.0490
APR 9,85	APR 8,85	0.19	0.08	0.040	<W 0.005	0.035	0.350	0.0316
APR 11,85	APR 10,85	0.89	0.23	0.150	0.040	0.075	0.900	0.0200
APR 19,85	APR 18,85	0.17	<T 0.05	0.035	<W 0.005	<T 0.015	0.230	0.0120
MAY 26,85	MAY 25,85	0.42	<T 0.02	0.070	0.035	0.040	0.030	0.0234
MAY 27,85	MAY 26,85	0.06	<W 0.01	<T 0.010	0.025	<T 0.015	0.325	0.0437
MAY 28,85	MAY 27,85	0.06	<W 0.01	<T 0.005	0.025	<T 0.015	0.435	0.0324
MAY 29,85	MAY 28,85	U 5.60	UG 0.93	UG 0.960	UG 0.525	0.550	UG 3.200	0.0479
JUN 1,85	MAY 31,85	0.47	<T 0.05	0.085	0.055	0.060	0.400	0.0407
JUN 6,85	JUN 5,85	0.12	0.07	0.015	<T 0.015	<T 0.005	0.375	0.0813
JUN 8,85	JUN 7,85	0.76	0.31	0.095	0.085	0.080	0.200	0.1175
JUN 12,85	JUN 11,85	0.06	<W 0.01	<T 0.005	<T 0.005	<T 0.005	LG 0.055	0.0282
JUN 14,85	JUN 13,85	0.06	<W 0.01	<T 0.010	<T 0.010	<T 0.005	0.115	0.0229
JUN 16,85	JUN 15,85	0.12	0.09	0.020	0.040	<T 0.015	0.255	0.1148
JUN 17,85	JUN 16,85	0.09	0.23	0.015	0.030	<T 0.010	0.730	0.1585
JUN 18,85	JUN 17,85	0.08	<T 0.04	<T 0.010	0.025	<W 0.005	0.475	0.0631
JUN 21,85	JUN 20,85	*****	*****	*****	*****	*****	*****	*****
JUN 23,85	JUN 22,85	0.24	0.17	0.050	0.035	<T 0.010	0.150	0.1096
JUN 29,85	JUN 28,85	0.41	0.16	0.090	0.090	0.065	0.215	0.0490
JUL 3,85	JUL 2,85	0.37	0.20	0.090	0.035	0.030	0.070	0.1514
JUL 11,85	JUL 10,85	0.31	<T 0.04	0.025	0.020	<W 0.005	0.105	0.0224
JUL 15,85	JUL 14,85	UG 2.37	0.48	0.350	UG 0.500	0.330	0.170	0.2754
JUL 16,85	JUL 15,85	0.16	<T 0.03	0.025	0.015	<T 0.005	0.130	0.0309
JUL 27,85	JUL 26,85	1.32	0.35	0.290	<T 0.005	0.105	<W 0.005	0.1349
JUL 30,85	JUL 29,85	0.94	0.30	0.195	<T 0.005	0.035	0.610	0.1072
AUG 1,85	JUL 31,85	0.19	0.09	0.035	0.015	0.015	0.115	0.0112
AUG 8,85	AUG 7,85	0.23	0.17	0.040	0.090	0.070	<W 0.005	0.0631
AUG 14,85	AUG 13,85	*****	*****	*****	*****	*****	*****	0.2630
AUG 16,85	AUG 15,85	0.24	0.12	0.050	0.070	0.025	0.255	0.1202
AUG 19,85	AUG 18,85	*****	*****	*****	*****	*****	*****	UG 0.4169
AUG 25,85	AUG 24,85	0.13	0.09	0.020	0.020	<T 0.005	0.180	0.0741
AUG 26,85	AUG 25,85	0.10	0.13	<T 0.010	0.025	<T 0.010	0.415	0.1738
AUG 30,85	AUG 29,85	0.26	0.07	0.025	<T 0.010	<T 0.010	0.220	0.0661
AUG 31,85	AUG 30,85	0.09	0.08	<T 0.010	<T 0.005	0.020	0.165	0.0603
SEP 2,85	SEP 1,85	0.33	0.55	0.045	<T 0.010	0.035	0.305	0.1738
SEP 4,85	SEP 3,85	0.32	0.18	0.050	0.030	0.060	0.170	0.0676
SEP 6,85	SEP 5,85	0.11	0.07	<T 0.015	<T 0.005	0.025	0.070	0.0275
SEP 7,85	SEP 6,85	0.10	0.11	<T 0.010	0.025	0.030	0.135	0.0347
SEP 10,85	SEP 9,85	0.27	0.05	0.025	<T 0.005	<T 0.015	0.155	0.0178
SEP 25,85	SEP 24,85	*****	*****	*****	*****	*****	*****	0.1380

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
SEP 27,85	SEP 26,85	800 820	200 820	1	14.0	1	92212	2	1	104	
SEP 28,85	SEP 27,85	820 800	820 1400	1	13.3	1	92213	2	1	100	C
OCT 2,85	OCT 1,85	800 600	900 1400	1	6.7	1	92214	2	1	105	
OCT 5,85	OCT 4,85	800 1000	500 1000	1	11.8	1	92215	2	1	104	
OCT 6,85	OCT 5,85	1000 900	900 1500	1	4.6	1	92216	2	1	100	
OCT 7,85	OCT 6,85	900 1000	1100 1600	1	0.8	1	92217	2	1	48	N
OCT 10,85	OCT 9,85	600 600	630 930	1	3.3	1	92218	2	1	111	C
OCT 11,85	OCT 10,85	600 800	600 1100	1	3.8	1	92219	2	1	110	D
OCT 13,85	OCT 12,85	600 600	2100 600	1	15.4	1	92220	2	1	103	
OCT 14,85	OCT 13,85	600 630	600 1230	1	2.0	1	92222	2	1	102	
OCT 16,85	OCT 15,85	600 800	630 1130	1	10.0	1	92223	2	1	73	
OCT 19,85	OCT 18,85	800 900	1530 300	1	12.0	1	92224	2	1	100	
OCT 25,85	OCT 24,85	800 800	1100 1830	1	9.8	1	92226	2	1	104	M
NOV 4,85	NOV 3,85	600 630	200 630	1	8.8	1	92227	2	1	103	
NOV 5,85	NOV 4,85	630 630	630 1000	1	4.0	1	92228	2	1	92	HCM
NOV 6,85	NOV 5,85	630 830	630 830	1	18.8	1	92229	2	1	98	C
NOV 7,85	NOV 6,85	830 830	830 1200	1	1.0	1	92232	2	1	82	
NOV 8,85	NOV 7,85	830 900	1400 100	1	3.4	1	92233	2	1	100	CD
NOV 10,85	NOV 9,85	900 930	1100 930	1	19.0	1	92234	2	1	104	
NOV 11,85	NOV 10,85	930 930	1400 2200	3	2.0	1	92235	2	1	35	N
NOV 13,85	NOV 12,85	900 840	2200 300	1	32.6	1	92236	2	1	76	
NOV 15,85	NOV 14,85	700 615	1200 2200	1	9.8	1	92237	2	1	83	
NOV 17,85	NOV 16,85	800 900	1300 100	3	7.6	1	92238	2	1	84	
NOV 19,85	NOV 18,85	800 1040	200 600	1	****	1	92239	2	1	****	
NOV 21,85	NOV 20,85	800 630	1100 1530	2	9.0	2	92240	2	1	****	IKE
NOV 29,85	NOV 28,85	600 900	630 1100	3	0.8	2	92241	2	1	111	
DEC 1,85	NOV 30,85	800 800	1800 800	1	0.2	2	92242	2	1	195	C
DEC 2,85	DEC 1,85	800 730	1900 500	1	16.0	2	92243	2	1	103	N
DEC 3,85	DEC 2,85	730 740	730 1330	3	0.3	2	92246	2	1	140	D
DEC 7,85	DEC 6,85	600 800	630 1300	2	1.6	2	92247	2	1	72	N
DEC 11,85	DEC 10,85	800 800	1400 1800	2	1.9	2	92248	2	1	100	C
DEC 12,85	DEC 11,85	900 600	2030 600	2	6.7	2	92250	2	1	94	D
DEC 13,85	DEC 12,85	600 600	1800 600	2	1.0	2	92251	2	1	67	
DEC 14,85	DEC 13,85	600 615	1800 500	2	7.7	2	92252	2	1	85	
DEC 16,85	DEC 15,85	600 600	630 1600	2	5.6	2	92253	2	1	53	
DEC 17,85	DEC 16,85	600 600	1400 2000	2	4.1	2	92254	2	1	92	
DEC 18,85	DEC 17,85	600 900	**** ****	2	11.2	2	92255	2	1	73	U
DEC 21,85	DEC 20,85	700 900	730 1300	2	1.2	2	92256	2	1	19	G
DEC 23,85	DEC 22,85	700 930	800 1300	2	6.8	2	92257	2	1	80	N
DEC 28,85	DEC 27,85	600 900	700 1400	2	3.8	2	92258	2	1	108	

ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 27,85	SEP 26,85	938.0	17.2	*****	4.51	*****	0.0543	1.40	0.24
SEP 28,85	SEP 27,85	856.0	LG 4.8	*****	5.11	*****	0.0266	LG 0.25	<T 0.05
OCT 2,85	OCT 1,85	451.0	26.7	*****	4.28	*****	0.0810	2.45	0.24
OCT 5,85	OCT 4,85	794.0	36.0	*****	4.16	*****	0.0955	2.60	0.57
OCT 6,85	OCT 5,85	297.0	30.1	*****	4.28	*****	0.0954	2.45	0.42
OCT 7,85	OCT 6,85	25.0	*****	*****	UG 6.12	*****	LG 0.0206	*****	*****
OCT 10,85	OCT 9,85	236.0	77.1	*****	3.82	*****	0.1920	6.45	1.20
OCT 11,85	OCT 10,85	269.0	88.4	*****	3.76	*****	0.2160	7.10	1.60
OCT 13,85	OCT 12,85	1026.0	32.4	*****	4.20	*****	0.0885	2.80	0.36
OCT 14,85	OCT 13,85	131.0	30.4	*****	4.26	*****	0.0807	2.65	0.44
OCT 16,85	OCT 15,85	468.0	23.3	*****	4.39	*****	0.0602	2.15	0.30
OCT 19,85	OCT 18,85	776.0	49.9	*****	3.98	*****	0.1320	3.10	0.93
OCT 25,85	OCT 24,85	655.0	15.7	*****	4.56	*****	0.0509	1.30	0.22
NOV 4,85	NOV 3,85	583.0	6.1	*****	5.23	*****	0.0249	LG 0.25	0.07
NOV 5,85	NOV 4,85	238.0	5.5	*****	5.31	*****	0.0236	LG 0.25	0.07
NOV 6,85	NOV 5,85	1188.0	5.4	*****	UG 5.34	*****	0.0265	LG 0.30	LG 0.06
NOV 7,85	NOV 6,85	53.0	10.7	*****	4.99	*****	0.0331	0.85	0.24
NOV 8,85	NOV 7,85	219.0	36.9	*****	4.12	*****	0.1160	2.05	0.68
NOV 10,85	NOV 9,85	1275.0	26.0	*****	4.33	*****	0.0765	1.30	0.55
NOV 11,85	NOV 10,85	45.0	*****	*****	4.07	*****	0.1250	*****	*****
NOV 13,85	NOV 12,85	1599.0	22.4	*****	4.39	*****	0.0724	1.70	0.22
NOV 15,85	NOV 14,85	522.0	14.4	*****	4.64	*****	0.0499	1.30	0.13
NOV 17,85	NOV 16,85	410.0	21.6	*****	4.41	*****	0.0688	1.25	0.41
NOV 19,85	NOV 18,85	28.0	63.8	*****	4.03	*****	0.1380	7.95	0.95
NOV 21,85	NOV 20,85	*****	*****	*****	*****	*****	*****	*****	*****
NOV 29,85	NOV 28,85	57.0	9.9	*****	5.18	*****	0.0248	0.60	0.31
DEC 1,85	NOV 30,85	25.0	*****	*****	4.08	*****	0.1240	*****	*****
DEC 2,85	DEC 1,85	1057.0	12.6	*****	4.70	*****	0.0387	0.75	0.21
DEC 3,85	DEC 2,85	27.0	*****	*****	4.32	*****	0.1680	*****	*****
DEC 7,85	DEC 6,85	74.0	16.6	*****	3.84	*****	0.1720	4.50	1.44
DEC 11,85	DEC 10,85	122.0	26.4	*****	4.24	*****	0.0733	1.35	0.62
DEC 12,85	DEC 11,85	408.0	14.1	*****	4.44	*****	0.0466	LG 0.25	0.37
DEC 13,85	DEC 12,85	43.0	56.3	*****	3.86	*****	0.1530	3.25	1.15
DEC 14,85	DEC 13,85	422.0	26.4	*****	4.21	*****	0.0753	0.65	0.72
DEC 16,85	DEC 15,85	193.0	43.6	*****	4.00	*****	0.1150	0.95	1.28
DEC 17,85	DEC 16,85	242.0	22.0	*****	4.28	*****	0.0675	LG 0.20	0.72
DEC 18,85	DEC 17,85	528.0	34.8	*****	4.09	*****	0.0959	0.70	0.96
DEC 21,85	DEC 20,85	15.0	*****	*****	4.11	*****	0.1380	*****	*****
DEC 23,85	DEC 22,85	352.0	69.5	*****	3.86	*****	0.1970	4.00	1.54
DEC 28,85	DEC 27,85	264.0	65.1	*****	3.89	*****	0.1800	3.85	1.42

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ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 27,85	SEP 26,85	0.06	<T 0.04	<T 0.005	<W 0.005	<T 0.015	0.085	0.0309
SEP 28,85	SEP 27,85	<T 0.02	<T 0.02	<W 0.005	<W 0.005	<T 0.005	LG 0.020	0.0078
OCT 2,85	OCT 1,85	0.09	<T 0.04	<T 0.005	<T 0.005	0.020	0.085	0.0525
OCT 5,85	OCT 4,85	0.08	<T 0.04	<T 0.005	<W 0.005	<T 0.010	0.160	0.0692
OCT 6,85	OCT 5,85	0.21	<T 0.04	0.030	0.035	<T 0.020	0.150	0.0525
OCT 7,85	OCT 6,85	*****	*****	*****	*****	*****	*****	LG 0.0008
OCT 10,85	OCT 9,85	0.69	0.35	0.090	<T 0.015	0.080	0.330	0.1514
OCT 11,85	OCT 10,85	0.67	0.43	0.130	0.065	0.165	0.605	0.1738
OCT 13,85	OCT 12,85	0.11	0.15	0.015	<T 0.010	0.040	0.180	0.0631
OCT 14,85	OCT 13,85	0.06	0.19	0.015	<W 0.005	0.040	0.325	0.0550
OCT 16,85	OCT 15,85	<T 0.03	0.11	<W 0.005	<W 0.005	<T 0.005	0.225	0.0407
OCT 19,85	OCT 18,85	0.28	0.12	0.040	<W 0.005	0.025	0.085	0.1047
OCT 25,85	OCT 24,85	0.09	0.13	0.015	<T 0.010	0.035	LG 0.035	0.0275
NOV 4,85	NOV 3,85	0.05	0.20	<W 0.005	<T 0.005	<T 0.015	*****	0.0059
NOV 5,85	NOV 4,85	<W 0.01	0.09	<W 0.005	<T 0.005	0.025	0.040	0.0049
NOV 6,85	NOV 5,85	0.05	0.07	<W 0.005	<T 0.005	0.030	0.065	LG 0.0046
NOV 7,85	NOV 6,85	0.14	0.15	0.015	0.040	0.065	0.220	0.0102
NOV 8,85	NOV 7,85	0.17	0.18	0.015	<W 0.005	<T 0.020	0.025	0.0759
NOV 10,85	NOV 9,85	0.11	0.11	<T 0.005	<T 0.010	<T 0.015	0.165	0.0468
NOV 11,85	NOV 10,85	*****	*****	*****	*****	*****	<W 0.005	0.0851
NOV 13,85	NOV 12,85	0.12	<T 0.04	<T 0.005	<T 0.005	<T 0.010	0.070	0.0407
NOV 15,85	NOV 14,85	0.12	0.08	0.015	<T 0.015	0.030	0.055	0.0229
NOV 17,85	NOV 16,85	0.15	0.13	0.020	<W 0.005	0.040	0.050	0.0389
NOV 19,85	NOV 18,85	*****	0.63	*****	*****	*****	*****	0.0933
NOV 21,85	NOV 20,85	*****	*****	*****	*****	*****	*****	*****
NOV 29,85	NOV 28,85	0.33	0.12	0.090	0.020	0.115	0.045	0.0066
DEC 1,85	NOV 30,85	*****	*****	*****	*****	*****	*****	0.0832
DEC 2,85	DEC 1,85	0.08	0.11	0.015	<T 0.005	<T 0.020	0.060	0.0200
DEC 3,85	DEC 2,85	*****	*****	*****	0.040	*****	*****	0.0479
DEC 7,85	DEC 6,85	0.64	0.60	0.095	<T 0.020	0.225	0.155	0.1445
DEC 11,85	DEC 10,85	0.19	0.13	0.035	<T 0.005	0.090	0.065	0.0575
DEC 12,85	DEC 11,85	0.06	0.13	<T 0.005	<W 0.005	0.020	<T 0.005	0.0363
DEC 13,85	DEC 12,85	*****	0.38	*****	*****	*****	*****	0.1380
DEC 14,85	DEC 13,85	0.05	0.09	<T 0.005	<W 0.005	<T 0.020	0.035	0.0617
DEC 16,85	DEC 15,85	0.10	0.37	0.015	<T 0.010	0.055	0.120	0.1000
DEC 17,85	DEC 16,85	<T 0.01	0.18	<W 0.005	<W 0.005	<T 0.015	0.075	0.0525
DEC 18,85	DEC 17,85	0.08	0.45	<T 0.005	<T 0.015	0.160	0.040	0.0813
DEC 21,85	DEC 20,85	*****	*****	*****	*****	*****	*****	0.0776
DEC 23,85	DEC 22,85	0.07	0.51	<T 0.010	0.040	0.105	0.500	0.1380
DEC 28,85	DEC 27,85	0.19	0.59	0.025	<T 0.020	0.160	0.485	0.1288

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.		PRECIP START/END HR. HR.		SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE	
DEC 29,85	DEC 28,85	900	1000	1400	2000	2	3.6	2	92259	2	1	76		
DEC 30,85	DEC 29,85	1000	845	1000	1500	2	3.2	2	92260	2	1	86	D	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 29,85	DEC 28,85	176.0	40.9	*****	4.07	*****	0.1190	0.60	1.16
DEC 30,85	DEC 29,85	178.0	40.5	*****	4.08	*****	0.1180	0.70	1.16

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AEROCHEM #11

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 29,85	DEC 28,85	0.21	0.49	0.020	<W 0.005	0.105	<W 0.005	0.0851
DEC 30,85	DEC 29,85	0.10	0.56	<T 0.010	<W 0.005	0.090	0.090	0.0832

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JAN 8,85	JAN 7,85	800 800	1600 2100	2	5.7	2	91247	2	1	U 21	I
JAN 14,85	JAN 13,85	800 800	2400 500	2	4.6	2	91249	2	1	26	N
JAN 18,85	JAN 17,85	800 800	830 1800	2	7.1	2	91251	2	1	****	EIK
JAN 19,85	JAN 18,85	800 800	****	2	14.4	2	91253	2	1	31	N
JAN 26,85	JAN 25,85	800 800	****	2	8.7	2	91255	2	1	****	EIK
JAN 28,85	JAN 26,85	800 800	****	2	2.8	2	91257	2	1	****	EIK Z
FEB 21,85	FEB 16,85	**** 800	****	2	22.8	2	91259	2	1	****	IEFK Z
FEB 25,85	FEB 21,85	800 800	****	1	36.2	2	91261	2	1	****	IEFK Z
FEB 27,85	FEB 26,85	800 800	100 800	2	5.5	2	91263	2	1	****	FIKE
MAR 5,85	MAR 4,85	800 800	1000 2400	2	33.2	2	91265	2	1	****	IEFK
MAR 12,85	MAR 11,85	800 800	1900 800	1	22.0	2	91268	2	1	61	
MAR 13,85	MAR 12,85	800 800	800 900	1	1.9	2	91272	2	1	20	N
MAR 28,85	MAR 27,85	800 800	1900 2200	1	1.0	2	91274	2	1	84	D
APR 1,85	MAR 31,85	800 800	1500 2400	1	35.0	2	91276	2	1	25	N
APR 4,85	APR 3,85	800 800	****	3	7.8	2	91278	2	1	41	N
APR 5,85	APR 4,85	800 800	2300 200	1	****	2	91280	2	1	****	C
APR 11,85	APR 10,85	800 800	1900 2300	3	****	2	91284	2	1	****	CD
APR 15,85	APR 14,85	800 800	130 200	1	****	2	91286	2	1	****	C
APR 22,85	APR 21,85	800 800	2130 2300	1	24.8	2	91288	2	1	26	N
APR 30,85	APR 27,85	800 800	700 715	1	0.6	1	91290	2	1	****	E Z
MAY 1,85	APR 30,85	800 800	600 745	1	1.0	1	91292	2	1	88	H
MAY 5,85	MAY 4,85	800 800	100 800	1	7.3	1	91294	2	1	95	C
MAY 6,85	MAY 5,85	800 800	800 1700	1	7.2	1	91296	2	1	35	N
MAY 7,85	MAY 6,85	800 800	1900 2300	1	3.8	1	91298	2	1	84	
MAY 19,85	MAY 18,85	800 800	1600 1800	1	6.0	1	91300	2	1	75	
MAY 21,85	MAY 20,85	800 800	2000 2400	1	3.2	1	91302	2	1	94	C
MAY 26,85	MAY 25,85	800 800	2400 500	1	8.0	1	91304	2	1	71	
MAY 27,85	MAY 26,85	800 800	1400 2000	1	14.3	1	91306	2	1	100	
MAY 28,85	MAY 27,85	800 800	900 1600	1	15.6	1	91308	2	1	51	
JUN 1,85	MAY 31,85	800 800	1900 2030	1	30.4	1	91313	2	1	98	C
JUN 6,85	JUN 5,85	800 800	830 2100	1	6.9	1	91315	2	1	92	
JUN 8,85	JUN 7,85	800 800	200 400	1	2.0	1	91317	2	1	80	
JUN 14,85	JUN 13,85	800 800	830 1600	1	16.8	1	91319	2	1	89	D
JUN 16,85	JUN 15,85	800 800	200 730	1	2.9	1	91323	2	1	86	D
JUN 18,85	JUN 17,85	800 800	2200 2400	1	17.4	1	91325	2	1	97	
JUN 21,85	JUN 20,85	800 800	1400 1630	1	2.8	1	91327	2	1	83	HM
JUN 28,85	JUN 21,85	800 800	2100 2200	1	1.1	1	91329	2	1	****	E Z
JUL 3,85	JUL 2,85	800 800	200 700	1	8.8	1	91331	2	1	****	E
JUL 10,85	JUL 9,85	800 1445	****	1	23.0	1	91333	2	1	89	H
JUL 14,85	JUL 13,85	800 800	530 730	1	3.2	1	91337	2	1	93	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 8,85	JAN 7,85	78.0	19.1	*****	4.63	*****	0.0482	0.90	0.69
JAN 14,85	JAN 13,85	79.0	25.6	*****	4.35	*****	0.0740	0.65	0.79
JAN 18,85	JAN 17,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 19,85	JAN 18,85	290.0	53.2	*****	4.00	*****	0.1390	2.55	1.24
JAN 26,85	JAN 25,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 28,85	JAN 26,85	*****	*****	*****	*****	*****	*****	*****	*****
FEB 21,85	FEB 16,85	*****	*****	*****	*****	*****	*****	*****	*****
FEB 25,85	FEB 21,85	*****	*****	*****	*****	*****	*****	*****	*****
FEB 27,85	FEB 26,85	*****	*****	*****	*****	*****	*****	*****	*****
MAR 5,85	MAR 4,85	*****	*****	*****	*****	*****	*****	*****	*****
MAR 12,85	MAR 11,85	862.0	60.5	*****	3.91	*****	0.1480	4.00	1.35
MAR 13,85	MAR 12,85	25.0	*****	*****	4.24	*****	0.0956	*****	*****
MAR 28,85	MAR 27,85	54.0	64.0	*****	4.22	*****	0.1690	8.40	D 1.86
APR 1,85	MAR 31,85	568.0	38.6	*****	4.20	*****	0.0940	3.65	0.70
APR 4,85	APR 3,85	209.0	38.9	*****	4.18	*****	0.0986	3.80	0.51
APR 5,85	APR 4,85	410.0	23.9	*****	4.53	*****	0.0574	2.20	0.66
APR 11,85	APR 10,85	100.0	45.4	*****	4.46	*****	0.0779	6.45	1.41
APR 15,85	APR 14,85	35.0	> 100.0	*****	3.56	*****	UG 0.3740	A 16.70	2.35
APR 22,85	APR 21,85	420.0	17.1	*****	4.99	*****	0.0338	2.65	0.47
APR 30,85	APR 27,85	*****	*****	*****	*****	*****	*****	*****	*****
MAY 1,85	APR 30,85	57.0	21.5	*****	UG 6.68	*****	LG 0.0216	4.40	0.63
MAY 5,85	MAY 4,85	447.0	50.0	4.07	4.18	*****	0.1000	5.20	1.36
MAY 6,85	MAY 5,85	166.0	37.9	4.12	4.20	*****	0.0946	3.95	0.52
MAY 7,85	MAY 6,85	207.0	21.5	4.37	4.50	*****	0.0577	2.20	0.42
MAY 19,85	MAY 18,85	291.0	29.8	4.69	4.65	*****	0.0562	5.25	0.53
MAY 21,85	MAY 20,85	193.0	60.2	4.08	4.04	*****	0.1450	6.55	0.85
MAY 26,85	MAY 25,85	365.0	25.3	4.41	4.42	*****	0.0683	2.55	0.42
MAY 27,85	MAY 26,85	924.0	25.1	4.38	4.41	*****	0.0702	2.55	0.41
MAY 28,85	MAY 27,85	514.0	16.8	4.53	4.59	*****	0.0566	1.65	0.26
JUN 1,85	MAY 31,85	1914.0	27.7	4.36	4.36	*****	0.0755	3.25	0.31
JUN 6,85	JUN 5,85	408.0	75.2	3.85	3.94	*****	0.1740	D 6.95	1.06
JUN 8,85	JUN 7,85	103.0	61.0	*****	4.10	*****	0.1310	6.00	1.11
JUN 14,85	JUN 13,85	960.0	17.3	4.45	4.59	*****	0.0513	1.65	0.21
JUN 16,85	JUN 15,85	161.0	56.6	3.92	4.05	*****	0.1400	5.70	0.73
JUN 18,85	JUN 17,85	1082.0	49.1	3.97	4.06	*****	0.1240	4.85	0.56
JUN 21,85	JUN 20,85	150.0	14.4	*****	UG 6.55	*****	LG 0.0163	2.00	0.56
JUN 28,85	JUN 21,85	*****	*****	*****	*****	*****	*****	*****	*****
JUL 3,85	JUL 2,85	*****	*****	*****	*****	*****	*****	*****	*****
JUL 10,85	JUL 9,85	1319.0	13.9	*****	4.73	*****	0.0409	1.50	0.23
JUL 14,85	JUL 13,85	192.0	80.9	*****	3.83	*****	0.2000	9.40	1.03

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ONTARIO MINISTRY OF THE ENVIRONMENT
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STATION NAME : RAILTON/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 8,85	JAN 7,85	0.61	0.45	0.080	0.025	0.220	0.045	0.0234
JAN 14,85	JAN 13,85	0.13	0.20	<T 0.015	<T 0.010	0.080	0.100	0.0447
JAN 18,85	JAN 17,85	*****	*****	*****	*****	*****	*****	*****
JAN 19,85	JAN 18,85	0.06	0.20	<T 0.010	<T 0.020	0.030	0.400	0.1000
JAN 26,85	JAN 25,85	*****	*****	*****	*****	*****	*****	*****
JAN 28,85	JAN 26,85	*****	*****	*****	*****	*****	*****	*****
FEB 21,85	FEB 16,85	*****	*****	*****	*****	*****	*****	*****
FEB 25,85	FEB 21,85	*****	*****	*****	*****	*****	*****	*****
FEB 27,85	FEB 26,85	*****	*****	*****	*****	*****	*****	*****
MAR 5,85	MAR 4,85	*****	*****	*****	*****	*****	*****	*****
MAR 12,85	MAR 11,85	0.42	0.40	0.065	0.060	0.235	0.575	0.1230
MAR 13,85	MAR 12,85	*****	*****	*****	*****	*****	*****	0.0575
MAR 28,85	MAR 27,85	UG 2.80	0.39	0.270	0.100	0.260	*****	0.0603
APR 1,85	MAR 31,85	0.16	0.16	0.020	<T 0.005	0.035	0.665	0.0631
APR 4,85	APR 3,85	0.11	0.14	<T 0.015	<W 0.005	0.025	0.495	0.0661
APR 5,85	APR 4,85	0.57	0.15	0.055	<T 0.015	0.035	0.380	0.0295
APR 11,85	APR 10,85	UG 2.36	0.37	0.245	0.175	0.220	0.870	0.0347
APR 15,85	APR 14,85	*****	0.81	*****	*****	*****	*****	0.2754
APR 22,85	APR 21,85	0.58	0.15	0.060	<T 0.010	0.050	0.675	0.0102
APR 30,85	APR 27,85	*****	*****	*****	*****	*****	*****	*****
MAY 1,85	APR 30,85	UG 2.20	0.18	0.285	0.175	0.145	0.800	LG 0.0002
MAY 5,85	MAY 4,85	0.89	0.19	0.130	0.040	<T 0.010	1.250	0.0661
MAY 6,85	MAY 5,85	*****	0.11	0.020	<T 0.015	<T 0.005	0.645	0.0631
MAY 7,85	MAY 6,85	0.40	0.07	0.045	<T 0.010	<T 0.010	0.300	0.0316
MAY 19,85	MAY 18,85	1.61	<T 0.06	0.200	0.055	0.065	0.390	0.0224
MAY 21,85	MAY 20,85	0.52	0.15	0.080	0.050	0.040	0.800	0.0912
MAY 26,85	MAY 25,85	0.21	<T 0.03	0.025	0.030	0.020	0.425	0.0380
MAY 27,85	MAY 26,85	0.19	<T 0.03	0.025	0.030	<T 0.015	D 0.425	0.0389
MAY 28,85	MAY 27,85	0.04	<W 0.01	<W 0.005	0.020	<T 0.005	0.360	0.0257
JUN 1,85	MAY 31,85	0.29	<T 0.06	0.040	0.035	0.050	0.370	0.0437
JUN 6,85	JUN 5,85	0.25	0.15	0.030	0.050	0.035	0.800	0.1148
JUN 8,85	JUN 7,85	0.73	0.23	0.110	0.070	0.040	0.825	0.0794
JUN 14,85	JUN 13,85	0.19	<W 0.01	<T 0.010	0.025	<W 0.005	0.150	0.0257
JUN 16,85	JUN 15,85	0.23	0.15	0.030	0.070	0.055	0.570	0.0891
JUN 18,85	JUN 17,85	0.17	0.11	<T 0.010	0.030	<T 0.005	D 0.485	0.0871
JUN 21,85	JUN 20,85	0.96	<T 0.06	0.065	0.065	<T 0.020	0.345	LG 0.0003
JUN 28,85	JUN 21,85	*****	*****	*****	*****	*****	*****	*****
JUL 3,85	JUL 2,85	*****	*****	*****	*****	*****	*****	*****
JUL 10,85	JUL 9,85	0.36	<T 0.04	0.015	0.025	<W 0.005	0.260	0.0186
JUL 14,85	JUL 13,85	0.89	0.28	0.090	0.195	0.160	0.880	0.1479

ONTARIO MINISTRY OF THE ENVIRONMENT
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STATION NAME : RAILTON/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JUL 16,85	JUL 15,85	800 800	1400 1600	1	47.0	1	91339	2	1	108	
JUL 30,85	JUL 29,85	800 800	1830 2030	1	1.2	1	91342	2	1	59	
AUG 1,85	JUL 31,85	800 800	1000 1400	1	4.0	1	91344	2	1	101	
AUG 8,85	AUG 7,85	800 800	1700 1800	1	3.8	1	91346	2	1	91	J
AUG 14,85	AUG 13,85	800 800	1600 2000	1	14.7	1	91348	2	1	161	
AUG 16,85	AUG 15,85	800 800	1000 1600	1	9.0	1	91350	2	1	100	
AUG 19,85	AUG 18,85	800 800	500 600	1	4.2	1	91352	2	1	79	
AUG 25,85	AUG 24,85	800 800	800 2400	1	18.0	1	91355	2	1	79	
AUG 26,85	AUG 25,85	800 800	1400 1800	1	4.0	1	91357	2	1	97	
AUG 27,85	AUG 26,85	800 800	2000 2130	1	1.5	1	91359	2	1	83	
AUG 30,85	AUG 29,85	800 800	330 500	1	27.0	1	91361	2	1	93	
AUG 31,85	AUG 30,85	800 800	800 1600	1	1.0	1	91363	2	1	****	E
SEP 2,85	SEP 1,85	800 800	2400 200	1	7.5	1	91365	2	1	90	
SEP 4,85	SEP 3,85	800 800	500 630	1	13.7	1	91367	2	1	96	
SEP 5,85	SEP 4,85	800 800	800 1500	1	0.3	1	91369	2	1	****	E
SEP 6,85	SEP 5,85	800 800	1800 400	1	54.6	1	91371	2	1	119	
SEP 7,85	SEP 6,85	800 800	1000 1600	1	16.0	1	91374	2	1	99	
SEP 10,85	SEP 9,85	800 800	1830 2000	1	7.2	1	91376	2	1	102	
SEP 25,85	SEP 24,85	800 800	1300 1500	1	1.6	1	91378	2	1	24	N
SEP 27,85	SEP 26,85	800 800	400 800	1	6.8	1	91380	2	1	98	
SEP 28,85	SEP 27,85	800 800	800 1600	1	16.0	1	91382	2	1	92	
OCT 1,85	SEP 30,85	800 800	500 800	1	1.2	1	91386	2	1	74	
OCT 2,85	OCT 1,85	800 800	800 1400	1	4.4	1	91388	2	1	90	
OCT 5,85	OCT 4,85	800 800	400 800	1	11.1	1	91390	2	1	97	
OCT 9,85	OCT 8,85	800 800	400 730	1	2.8	1	91392	2	1	25	N
OCT 10,85	OCT 9,85	800 800	900 1500	1	0.9	1	91394	2	1	285	N
OCT 12,85	OCT 11,85	800 800	400 600	1	20.9	1	91396	2	1	97	C
OCT 15,85	OCT 14,85	800 800	630 800	1	3.2	1	91398	2	1	97	
OCT 16,85	OCT 15,85	800 800	800 1130	1	3.5	1	91400	2	1	80	
OCT 19,85	OCT 18,85	800 800	1630 730	1	13.2	1	91402	2	1	99	
OCT 25,85	OCT 24,85	800 800	1000 1700	1	9.1	1	91405	2	1	92	
NOV 12,85	NOV 3,85	800 800	**** *	3	55.5	1	91408	2	1	103	E Z
NOV 13,85	NOV 12,85	800 800	2000 300	1	23.6	1	91409	2	1	111	
NOV 15,85	NOV 14,85	800 800	1200 1800	1	7.0	1	91413	2	1	49	N
NOV 17,85	NOV 16,85	800 800	1400 2000	1	8.8	1	91415	2	1	64	
NOV 19,85	NOV 18,85	800 800	**** *	1	0.2	1	91417	2	1	655	N
NOV 29,85	NOV 28,85	800 800	800 1000	2	1.2	2	91419	2	1	11	E N
DEC 3,85	DEC 1,85	800 800	30 1600	3	12.8	2	91421	2	1	87	CZ
DEC 11,85	DEC 10,85	800 800	1200 2100	2	3.5	2	91424	2	1	****	FE
DEC 12,85	DEC 11,85	800 800	2300 500	2	6.6	2	91426	2	1	****	FE

ONTARIO MINISTRY OF THE ENVIRONMENT
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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUL 16,85	JUL 15,85	3274.0	15.9	*****	4.55	*****	0.0475	1.65	0.20
JUL 30,85	JUL 29,85	46.0	*****	*****	4.01	*****	0.1600	14.50	2.18
AUG 1,85	JUL 31,85	260.0	9.4	*****	4.97	*****	0.0323	1.00	0.24
AUG 8,85	AUG 7,85	224.0	56.1	*****	3.99	*****	0.1430	5.40	0.83
AUG 14,85	AUG 13,85	957.0	> 100.0	*****	3.62	*****	0.3070	11.80	1.13
AUG 16,85	AUG 15,85	580.0	62.0	*****	3.91	*****	0.1680	5.65	0.77
AUG 19,85	AUG 18,85	214.0	75.5	*****	3.84	*****	0.1930	6.75	0.92
AUG 25,85	AUG 24,85	917.0	57.0	*****	3.96	*****	0.1640	7.10	0.73
AUG 26,85	AUG 25,85	250.0	41.5	*****	4.19	*****	0.0994	4.60	0.55
AUG 27,85	AUG 26,85	80.0	54.6	*****	3.97	*****	0.1550	6.30	0.48
AUG 30,85	AUG 29,85	1616.0	51.8	*****	4.04	*****	0.1310	5.25	0.48
AUG 31,85	AUG 30,85	*****	*****	*****	*****	*****	*****	*****	*****
SEP 2,85	SEP 1,85	433.0	78.2	*****	3.84	*****	0.2050	7.75	0.87
SEP 4,85	SEP 3,85	847.0	19.6	*****	4.52	*****	0.0545	2.10	0.32
SEP 5,85	SEP 4,85	*****	*****	*****	*****	*****	*****	*****	*****
SEP 6,85	SEP 5,85	4167.0	50.7	*****	4.05	*****	0.1310	4.65	0.68
SEP 7,85	SEP 6,85	1022.0	8.1	*****	4.84	*****	0.0350	0.85	LG 0.07
SEP 10,85	SEP 9,85	472.0	16.6	*****	4.62	*****	0.0505	1.70	0.29
SEP 25,85	SEP 24,85	25.0	*****	*****	4.14	*****	*****	*****	*****
SEP 27,85	SEP 26,85	430.0	21.6	*****	4.39	*****	0.0631	1.70	0.31
SEP 28,85	SEP 27,85	948.0	7.2	*****	4.94	*****	0.0308	LG 0.55	LG 0.07
OCT 1,85	SEP 30,85	57.0	> 100.0	*****	3.66	*****	0.2900	8.95	1.53
OCT 2,85	OCT 1,85	254.0	39.9	*****	4.20	*****	0.1010	3.70	0.40
OCT 5,85	OCT 4,85	695.0	45.7	*****	4.05	*****	0.1160	3.55	0.79
OCT 9,85	OCT 8,85	46.0	71.1	*****	3.89	*****	0.1720	6.60	1.23
OCT 10,85	OCT 9,85	165.0	60.4	*****	3.93	*****	0.1540	5.40	1.04
OCT 12,85	OCT 11,85	1308.0	40.8	*****	4.12	*****	0.1010	3.75	0.61
OCT 15,85	OCT 14,85	199.0	26.1	*****	4.29	*****	0.0742	1.95	0.39
OCT 16,85	OCT 15,85	181.0	23.3	*****	4.37	*****	0.0668	1.95	0.34
OCT 19,85	OCT 18,85	838.0	59.2	*****	3.94	*****	0.1500	4.25	1.13
OCT 25,85	OCT 24,85	542.0	19.7	*****	4.51	*****	0.0524	1.90	0.26
NOV 12,85	NOV 3,85	3681.0	*****	*****	*****	*****	*****	*****	*****
NOV 13,85	NOV 12,85	1680.0	25.8	*****	4.35	*****	0.0759	2.10	0.25
NOV 15,85	NOV 14,85	221.0	12.7	*****	4.64	*****	0.0437	1.05	0.11
NOV 17,85	NOV 16,85	363.0	22.6	*****	4.35	*****	0.0685	1.25	0.50
NOV 19,85	NOV 18,85	84.0	33.4	*****	4.17	*****	0.0935	2.90	0.37
NOV 29,85	NOV 28,85	9.0	*****	*****	*****	*****	*****	*****	*****
DEC 3,85	DEC 1,85	720.0	21.9	*****	4.52	*****	0.0505	1.15	0.35
DEC 11,85	DEC 10,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 12,85	DEC 11,85	*****	*****	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUL 16,85	JUL 15,85	0.12	<T 0.02	<T 0.005	0.025	<W 0.005	0.205	0.0282
JUL 30,85	JUL 29,85	*****	0.59	*****	*****	*****	1.550	0.0977
AUG 1,85	JUL 31,85	0.22	<T 0.06	0.030	0.020	0.015	0.220	0.0107
AUG 8,85	AUG 7,85	0.48	0.17	0.055	0.055	0.015	0.445	0.1023
AUG 14,85	AUG 13,85	0.49	0.28	0.080	0.065	0.045	0.660	0.2399
AUG 16,85	AUG 15,85	0.19	0.15	0.035	0.015	0.020	0.420	0.1230
AUG 19,85	AUG 18,85	0.22	0.43	0.060	0.050	0.260	0.450	0.1445
AUG 25,85	AUG 24,85	0.55	0.16	0.065	0.055	0.025	0.820	0.1096
AUG 26,85	AUG 25,85	0.32	0.09	0.045	0.055	0.030	0.545	0.0646
AUG 27,85	AUG 26,85	0.04	0.09	<T 0.005	0.020	<T 0.010	0.515	0.1072
AUG 30,85	AUG 29,85	0.21	0.13	0.025	<T 0.005	0.090	0.425	0.0912
AUG 31,85	AUG 30,85	*****	*****	*****	*****	*****	*****	*****
SEP 2,85	SEP 1,85	0.30	0.21	0.035	<T 0.020	0.030	0.675	0.1445
SEP 4,85	SEP 3,85	0.20	0.11	0.035	<T 0.005	0.060	0.260	0.0302
SEP 5,85	SEP 4,85	*****	*****	*****	*****	*****	*****	*****
SEP 6,85	SEP 5,85	0.34	0.27	0.050	<T 0.015	0.120	0.325	0.0891
SEP 7,85	SEP 6,85	0.05	<T 0.04	<T 0.005	<T 0.005	<T 0.010	LG 0.060	0.0145
SEP 10,85	SEP 9,85	0.25	0.08	0.040	<T 0.005	0.020	0.270	0.0240
SEP 25,85	SEP 24,85	*****	*****	*****	*****	*****	0.905	0.0724
SEP 27,85	SEP 26,85	0.14	<T 0.03	0.015	0.025	<T 0.015	LG 0.045	0.0407
SEP 28,85	SEP 27,85	<T 0.03	<W 0.01	<W 0.005	<T 0.015	<T 0.005	LG 0.035	0.0115
OCT 1,85	SEP 30,85	0.60	0.76	0.100	0.100	0.385	0.295	0.2188
OCT 2,85	OCT 1,85	0.17	0.07	0.030	<T 0.015	0.040	0.245	0.0631
OCT 5,85	OCT 4,85	0.19	<T 0.04	0.015	0.025	<T 0.015	0.305	0.0891
OCT 9,85	OCT 8,85	*****	0.39	*****	*****	*****	0.615	0.1288
OCT 10,85	OCT 9,85	0.76	0.20	0.065	0.065	0.040	0.315	0.1175
OCT 12,85	OCT 11,85	0.16	0.19	0.030	0.025	0.070	0.435	0.0759
OCT 15,85	OCT 14,85	0.05	<T 0.05	<W 0.005	<T 0.005	<T 0.015	0.135	0.0513
OCT 16,85	OCT 15,85	<T 0.01	<T 0.05	<T 0.015	<W 0.005	<T 0.015	0.165	0.0427
OCT 19,85	OCT 18,85	0.32	0.22	0.045	0.030	0.020	0.330	0.1148
OCT 25,85	OCT 24,85	0.21	0.12	0.035	<T 0.010	0.050	0.125	0.0309
NOV 12,85	NOV 3,85	*****	*****	*****	*****	*****	*****	*****
NOV 13,85	NOV 12,85	0.10	<T 0.06	<T 0.010	<T 0.010	<T 0.020	0.115	0.0447
NOV 15,85	NOV 14,85	0.12	<T 0.04	<T 0.015	<T 0.005	0.020	0.035	0.0229
NOV 17,85	NOV 16,85	0.15	0.08	0.020	<T 0.010	0.030	0.105	0.0447
NOV 19,85	NOV 18,85	0.18	0.20	0.025	<T 0.010	0.080	0.125	0.0676
NOV 29,85	NOV 28,85	*****	*****	*****	*****	*****	*****	*****
DEC 3,85	DEC 1,85	0.07	<T 0.04	<T 0.010	<W 0.005	0.030	0.135	0.0302
DEC 11,85	DEC 10,85	*****	*****	*****	*****	*****	*****	*****
DEC 12,85	DEC 11,85	*****	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
DEC 17,85	DEC 13,85	800 800	**** ****	2	14.9	2	91428	2	1	****	E Z
DEC 29,85	DEC 17,85	800 800	**** ****	2	25.3	2	91430	2	1	****	FE Z

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
DEC 17,85	DEC 13,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 29,85	DEC 17,85	*****	*****	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY/AEROCHEM		#10		PAGE : 9				
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
DEC 17,85	DEC 13,85	*****	*****	*****	*****	*****	*****	*****
DEC 29,85	DEC 17,85	*****	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JAN 13,85	JAN 13,85	800 2300	800 2300	2	15.2	2	22989	2	1	11	N
JAN 17,85	JAN 17,85	900 2200	900 2200	2	8.2	2	22990	2	1	****	FIE
JAN 19,85	JAN 18,85	1800 1000	1800 1000	2	6.0	2	22991	2	1	64	
JAN 20,85	JAN 19,85	1000 800	1000 800	2	3.8	2	22992	2	1	29	CD N
JAN 22,85	JAN 20,85	800 800	****	2	1.2	2	22993	2	1	11	E NZ
JAN 24,85	JAN 22,85	800 1800	****	2	2.2	2	22994	2	1	56	Z
JAN 25,85	JAN 24,85	1800 1600	****	2	4.4	2	22995	2	1	****	FIKE
JAN 26,85	JAN 25,85	1600 800	****	2	1.8	2	22996	2	1	45	N
JAN 27,85	JAN 26,85	800 1400	****	2	3.0	2	22997	2	1	10	N
JAN 29,85	JAN 28,85	2200 800	****	2	3.2	2	22998	2	1	****	EIKF
JAN 31,85	JAN 31,85	1100 1500	****	2	7.0	2	22999	2	1	****	EIKF
FEB 2,85	FEB 1,85	800 800	****	2	0.8	2	23000	2	1	95	C
FEB 5,85	FEB 5,85	800 1600	****	2	5.6	2	52001	2	1	****	EIFK
FEB 7,85	FEB 6,85	**** 1600	****	2	7.0	2	52002	2	1	****	EIFK
FEB 15,85	FEB 15,85	1000 1400	****	2	8.0	2	52003	2	1	40	N
FEB 16,85	FEB 15,85	1400 1100	****	2	2.4	2	52004	2	1	****	EIFK
FEB 17,85	FEB 16,85	1100 800	****	2	1.2	2	52005	2	1	13	C N
FEB 20,85	FEB 19,85	**** 1400	****	2	2.4	2	52006	2	1	36	D N
FEB 22,85	FEB 22,85	500 1600	****	1	8.4	2	52007	2	1	85	
FEB 23,85	FEB 22,85	1600 1300	****	1	14.5	2	52008	2	1	51	
FEB 24,85	FEB 23,85	1300 1500	****	1	40.2	2	52009	2	1	54	
FEB 25,85	FEB 24,85	1500 800	****	1	1.2	2	52010	2	1	88	D
FEB 26,85	FEB 25,85	800 700	****	1	6.0	2	52011	2	1	92	
MAR 2,85	MAR 1,85	945 800	****	1	1.0	2	52012	2	1	93	C
MAR 4,85	MAR 3,85	900 700	****	3	44.2	2	52013	2	1	U 3	CI
MAR 6,85	MAR 5,85	700 700	****	2	1.2	2	52014	2	1	14	N
MAR 9,85	MAR 8,85	700 700	****	1	2.2	2	52015	2	1	91	
MAR 12,85	MAR 11,85	700 800	1600 800	1	5.0	2	52016	2	1	114	
MAR 13,85	MAR 12,85	800 700	****	1	15.0	2	52017	2	1	81	
MAR 18,85	MAR 13,85	700 700	200 1700	2	3.4	2	52018	2	1	28	NZ
MAR 28,85	MAR 27,85	700 700	1500 700	1	1.8	2	52020	2	1	118	D
MAR 29,85	MAR 28,85	700 700	1500 200	1	11.2	2	52021	2	1	****	GE
APR 1,85	MAR 31,85	700 700	****	3	26.8	2	52022	2	1	****	GE
APR 2,85	APR 1,85	700 700	****	3	1.6	2	52023	2	1	55	
APR 5,85	APR 4,85	700 1000	****	1	11.0	2	52025	2	1	U 15	CG
APR 6,85	APR 5,85	1000 1600	****	1	4.8	2	52026	2	1	****	GE
APR 9,85	APR 6,85	1600 600	****	3	4.8	2	52027	2	1	****	GE
APR 11,85	APR 9,85	600 600	****	2	1.4	2	52028	2	1	45	Z
APR 18,85	APR 16,85	600 1600	800 1100	3	****	2	52030	2	1	****	NZ
APR 29,85	APR 28,85	1600 1000	****	1	2.3	1	52031	2	1	U 118	Z

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 13,85	JAN 13,85	110.0	21.6	*****	4.41	*****	0.0631	0.60	0.69
JAN 17,85	JAN 17,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 19,85	JAN 18,85	247.0	24.4	*****	4.73	*****	0.0424	1.10	1.32
JAN 20,85	JAN 19,85	71.0	48.4	*****	4.01	*****	0.1240	1.05	1.55
JAN 22,85	JAN 20,85	9.0	*****	*****	*****	*****	*****	*****	*****
JAN 24,85	JAN 22,85	80.0	30.3	*****	4.33	*****	0.0701	1.80	0.98
JAN 25,85	JAN 24,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 26,85	JAN 25,85	53.0	52.0	*****	3.96	*****	0.1360	1.50	1.49
JAN 27,85	JAN 26,85	20.0	*****	*****	3.93	*****	0.1530	*****	*****
JAN 29,85	JAN 28,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 31,85	JAN 31,85	*****	*****	*****	*****	*****	*****	*****	*****
FEB 2,85	FEB 1,85	49.0	60.0	*****	3.92	*****	0.1640	1.80	1.74
FEB 5,85	FEB 5,85	*****	*****	*****	*****	*****	*****	*****	*****
FEB 7,85	FEB 6,85	*****	*****	*****	*****	*****	*****	*****	*****
FEB 15,85	FEB 15,85	210.0	84.0	*****	3.76	*****	0.2080	4.20	1.90
FEB 16,85	FEB 15,85	*****	*****	*****	*****	*****	*****	*****	*****
FEB 17,85	FEB 16,85	10.0	*****	*****	*****	*****	*****	*****	*****
FEB 20,85	FEB 19,85	56.0	41.9	*****	4.07	*****	0.1120	1.05	1.24
FEB 22,85	FEB 22,85	458.0	37.7	*****	4.13	*****	0.0976	2.85	0.69
FEB 23,85	FEB 22,85	480.0	16.7	*****	4.61	*****	0.0469	1.95	0.19
FEB 24,85	FEB 23,85	1397.0	30.6	*****	4.20	*****	0.0863	2.25	0.49
FEB 25,85	FEB 24,85	68.0	54.5	*****	3.96	*****	0.1350	4.85	0.82
FEB 26,85	FEB 25,85	356.0	29.6	*****	4.22	*****	0.0798	2.20	0.57
MAR 2,85	MAR 1,85	60.0	> 100.0	*****	3.64	*****	0.2650	6.80	3.58
MAR 4,85	MAR 3,85	111.0	27.5	*****	4.28	*****	0.0725	2.15	0.55
MAR 6,85	MAR 5,85	11.0	*****	*****	*****	*****	*****	*****	*****
MAR 9,85	MAR 8,85	129.0	72.0	*****	3.94	*****	0.1690	5.25	1.92
MAR 12,85	MAR 11,85	366.0	11.8	*****	4.73	*****	0.0419	1.05	0.17
MAR 13,85	MAR 12,85	780.0	11.8	*****	4.72	*****	0.0416	1.05	0.17
MAR 18,85	MAR 13,85	62.0	79.3	*****	4.01	*****	0.1580	5.75	2.96
MAR 28,85	MAR 27,85	137.0	44.9	*****	4.21	*****	0.0993	5.00	0.99
MAR 29,85	MAR 28,85	*****	*****	*****	*****	*****	*****	*****	*****
APR 1,85	MAR 31,85	*****	*****	*****	*****	*****	*****	*****	*****
APR 2,85	APR 1,85	57.0	38.0	*****	4.17	*****	0.0949	2.55	0.83
APR 5,85	APR 4,85	109.0	26.0	*****	4.52	*****	0.1570	2.75	0.71
APR 6,85	APR 5,85	*****	*****	*****	*****	*****	*****	*****	*****
APR 9,85	APR 6,85	*****	*****	*****	*****	*****	*****	*****	*****
APR 11,85	APR 9,85	41.0	36.2	*****	4.36	*****	0.0749	2.80	1.20
APR 18,85	APR 16,85	279.0	10.7	*****	4.84	*****	0.0367	1.20	0.18
APR 29,85	APR 28,85	175.0	43.1	4.52	4.53	*****	0.0696	6.00	1.42

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 13,85	JAN 13,85	0.21	0.15	0.035	0.040	0.060	0.075	0.0389
JAN 17,85	JAN 17,85	*****	*****	*****	*****	*****	*****	*****
JAN 19,85	JAN 18,85	0.12	0.29	0.020	0.030	0.075	1.400	0.0186
JAN 20,85	JAN 19,85	0.40	0.37	0.060	0.130	0.265	0.095	0.0977
JAN 22,85	JAN 20,85	*****	*****	*****	*****	*****	*****	*****
JAN 24,85	JAN 22,85	0.15	0.19	0.030	0.055	0.095	0.700	0.0468
JAN 25,85	JAN 24,85	*****	*****	*****	*****	*****	*****	*****
JAN 26,85	JAN 25,85	0.15	0.18	0.030	0.025	0.135	0.220	0.1096
JAN 27,85	JAN 26,85	*****	*****	*****	*****	*****	*****	0.1175
JAN 29,85	JAN 28,85	*****	*****	*****	*****	*****	*****	*****
JAN 31,85	JAN 31,85	*****	*****	*****	*****	*****	*****	*****
FEB 2,85	FEB 1,85	0.43	0.53	0.095	0.115	0.235	0.195	0.1202
FEB 5,85	FEB 5,85	*****	*****	*****	*****	*****	*****	*****
FEB 7,85	FEB 6,85	*****	*****	*****	*****	*****	*****	*****
FEB 15,85	FEB 15,85	*****	0.90	*****	*****	*****	0.400	0.1738
FEB 16,85	FEB 15,85	*****	*****	*****	*****	*****	*****	*****
FEB 17,85	FEB 16,85	*****	*****	*****	*****	*****	*****	*****
FEB 20,85	FEB 19,85	0.40	0.37	0.050	0.060	0.160	0.100	0.0851
FEB 22,85	FEB 22,85	0.52	0.30	0.030	0.090	0.115	0.175	0.0741
FEB 23,85	FEB 22,85	0.13	0.09	0.020	<T 0.020	0.055	0.390	0.0245
FEB 24,85	FEB 23,85	0.08	0.28	0.025	<T 0.010	0.165	0.270	0.0631
FEB 25,85	FEB 24,85	0.44	0.46	0.050	0.170	0.385	0.420	0.1096
FEB 26,85	FEB 25,85	0.12	0.11	0.025	<T 0.005	<T 0.020	0.335	0.0603
MAR 2,85	MAR 1,85	*****	0.86	*****	*****	*****	0.565	0.2291
MAR 4,85	MAR 3,85	0.32	0.09	0.070	0.085	0.060	0.160	0.0525
MAR 6,85	MAR 5,85	*****	*****	*****	*****	*****	*****	*****
MAR 9,85	MAR 8,85	0.79	0.19	0.080	0.070	0.115	1.100	0.1148
MAR 12,85	MAR 11,85	0.14	<T 0.06	<T 0.015	0.040	0.060	0.095	0.0186
MAR 13,85	MAR 12,85	0.12	<T 0.06	<T 0.015	0.035	0.060	0.095	0.0191
MAR 18,85	MAR 13,85	UG 1.58	0.48	0.275	0.125	0.260	2.000	0.0977
MAR 28,85	MAR 27,85	0.99	0.30	0.260	0.175	0.250	0.480	0.0617
MAR 29,85	MAR 28,85	*****	*****	*****	*****	*****	*****	*****
APR 1,85	MAR 31,85	*****	*****	*****	*****	*****	*****	*****
APR 2,85	APR 1,85	0.17	0.23	0.035	0.175	0.105	*****	0.0676
APR 5,85	APR 4,85	0.72	0.15	0.080	0.040	0.055	0.470	0.0302
APR 6,85	APR 5,85	*****	*****	*****	*****	*****	*****	*****
APR 9,85	APR 6,85	*****	*****	*****	*****	*****	*****	*****
APR 11,85	APR 9,85	*****	0.25	*****	*****	*****	*****	0.0437
APR 18,85	APR 16,85	0.07	<T 0.06	<T 0.015	<W 0.005	0.020	0.225	0.0145
APR 29,85	APR 28,85	UG 1.61	0.34	0.225	0.155	0.170	1.400	0.0295

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
MAY 1,85	APR 29,85	1600 1600	2300 700	1	1.2	1	52032	2	1	85	Z
MAY 5,85	MAY 4,85	1600 1200	2300 1200	1	10.0	1	52033	2	1	99	
MAY 6,85	MAY 5,85	1200 1600	1200 600	1	8.6	1	52034	2	1	92	
MAY 7,85	MAY 6,85	1600 1500	****	1	12.2	1	52035	2	1	99	
MAY 8,85	MAY 7,85	1500 1600	****	1	0.8	1	52036	2	1	85	CD
MAY 10,85	MAY 8,85	1600 1600	****	1	1.2	1	52037	2	1	79	DG Z
MAY 16,85	MAY 10,85	1600 700	****	1	1.2	1	52038	2	1	132	CD NZ
MAY 20,85	MAY 16,85	700 630	****	1	0.8	1	52039	2	1	87	C Z
MAY 21,85	MAY 20,85	630 630	****	1	8.2	1	52040	2	1	47	C N
MAY 26,85	MAY 21,85	630 600	****	1	15.4	1	52041	2	1	102	Z
MAY 27,85	MAY 26,85	600 630	****	1	12.0	1	52042	2	1	119	
MAY 28,85	MAY 27,85	630 630	****	1	9.0	1	52043	2	1	97	C
MAY 31,85	MAY 28,85	630 630	****	1	1.2	1	52044	2	1	111	CD Z
JUN 1,85	MAY 31,85	630 1000	****	1	16.8	1	52045	2	1	112	C
JUN 6,85	JUN 5,85	700 2200	620 2200	1	16.2	1	92174	2	1	87	
JUN 8,85	JUN 7,85	600 730	300 730	1	1.4	1	92175	2	1	74	D
JUN 12,85	JUN 11,85	1600 630	1200 1300	1	8.0	1	92177	2	1	116	
JUN 14,85	JUN 13,85	400 1600	****	1	21.8	1	92178	2	1	99	
JUN 17,85	JUN 16,85	600 630	600 1700	1	3.6	1	92179	2	1	93	CD
JUN 18,85	JUN 17,85	630 600	2400 500	1	39.0	1	92180	2	1	106	
JUN 19,85	JUN 18,85	630 630	1100 1630	1	4.0	1	52046	2	1	104	C JH
JUN 23,85	JUN 22,85	630 630	2000 300	1	13.0	1	52047	2	1	101	
JUN 24,85	JUN 23,85	630 630	100 400	1	1.2	1	52048	2	1	100	
JUN 29,85	JUN 28,85	630 630	2300 600	1	4.0	1	52049	2	1	94	
JUL 2,85	JUL 1,85	630 630	****	1	0.4	1	52050	2	1	136	C N
JUL 3,85	JUL 2,85	630 630	200 600	1	0.8	1	52051	2	1	224	N
JUL 8,85	JUL 7,85	630 630	200 600	1	2.4	1	52052	2	1	102	D
JUL 11,85	JUL 10,85	630 630	****	1	28.2	1	52053	2	1	102	
JUL 15,85	JUL 14,85	630 830	****	1	4.2	1	52056	2	1	111	CD
JUL 16,85	JUL 15,85	830 630	1400 1900	1	12.8	1	52057	2	1	101	
JUL 23,85	JUL 22,85	630 630	****	1	0.4	1	52058	2	1	96	E
JUL 27,85	JUL 26,85	630 1000	1200 1430	1	1.0	1	52059	2	1	115	C
JUL 30,85	JUL 29,85	630 630	****	1	2.8	1	52060	2	1	145	CD NH
AUG 1,85	JUL 31,85	630 630	****	1	2.4	1	52061	2	1	104	
AUG 8,85	AUG 7,85	630 630	1700 1900	1	1.2	1	52063	2	1	100	
AUG 15,85	AUG 14,85	630 630	****	1	12.1	1	52064	2	1	102	
AUG 25,85	AUG 24,85	630 1000	1000 1000	1	30.0	1	52065	2	1	95	
AUG 27,85	AUG 26,85	630 630	****	1	2.2	1	52067	2	1	104	
AUG 30,85	AUG 29,85	630 1000	****	1	29.1	1	52068	2	1	103	
SEP 4,85	SEP 3,85	630 630	1500 2300	1	13.4	1	52069	2	1		

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM

#12

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 1,85	APR 29,85	66.0	72.0	*****	4.05	*****	0.1360	UG 10.70	1.23
MAY 5,85	MAY 4,85	638.0	50.5	4.06	4.14	*****	0.1070	4.95	1.22
MAY 6,85	MAY 5,85	508.0	31.8	4.24	4.31	*****	0.0783	3.45	0.50
MAY 7,85	MAY 6,85	782.0	17.7	4.41	4.53	*****	0.0511	1.85	0.20
MAY 8,85	MAY 7,85	44.0	29.8	*****	4.33	*****	0.0775	4.30	0.12
MAY 10,85	MAY 8,85	61.0	36.6	*****	4.41	*****	0.0701	5.35	0.80
MAY 16,85	MAY 10,85	102.0	> 100.0	*****	3.50	*****	0.4230	16.05	2.58
MAY 20,85	MAY 16,85	45.0	79.3	*****	7.34	*****	0.0188	13.10	2.89
MAY 21,85	MAY 20,85	249.0	44.0	4.17	4.17	*****	0.1050	5.15	0.79
MAY 26,85	MAY 21,85	1011.0	24.1	4.70	4.78	*****	0.0426	4.40	0.48
MAY 27,85	MAY 26,85	918.0	22.3	4.40	4.45	*****	0.0624	2.30	0.36
MAY 28,85	MAY 27,85	561.0	48.6	4.44	4.46	*****	0.0618	2.95	0.43
MAY 31,85	MAY 28,85	86.0	> 100.0	*****	3.78	*****	0.2340	10.50	1.65
JUN 1,85	MAY 31,85	1215.0	26.0	4.39	4.41	*****	0.0658	3.25	0.33
JUN 6,85	JUN 5,85	911.0	46.8	4.05	4.08	*****	0.1220	4.15	0.72
JUN 8,85	JUN 7,85	67.0	58.9	*****	4.06	*****	0.1300	5.95	0.88
JUN 12,85	JUN 11,85	595.0	17.7	4.51	4.52	*****	0.0514	1.65	0.24
JUN 14,85	JUN 13,85	1384.0	12.4	4.68	4.68	*****	0.0391	1.00	0.19
JUN 17,85	JUN 16,85	216.0	64.0	3.91	3.94	*****	0.1510	6.40	0.63
JUN 18,85	JUN 17,85	2662.0	27.0	4.27	4.29	*****	0.0786	2.55	0.33
JUN 19,85	JUN 18,85	268.0	10.3	UG 6.16	UG 6.74	*****	LG 0.0173	1.70	0.54
JUN 23,85	JUN 22,85	847.0	29.9	4.20	4.25	*****	0.0889	3.45	0.37
JUN 24,85	JUN 23,85	77.0	68.0	*****	4.03	*****	0.1470	8.65	1.20
JUN 29,85	JUN 28,85	242.0	7.9	UG 5.73	UG 5.93	*****	LG 0.0173	0.80	0.17
JUL 2,85	JUL 1,85	35.0	64.8	*****	3.94	*****	0.1740	5.20	1.62
JUL 3,85	JUL 2,85	115.0	> 100.0	*****	3.71	*****	0.2730	9.60	1.73
JUL 8,85	JUL 7,85	157.0	25.3	*****	4.44	*****	0.0612	3.85	0.22
JUL 11,85	JUL 10,85	1845.0	17.2	*****	4.51	*****	0.0554	1.60	0.21
JUL 15,85	JUL 14,85	300.0	*****	*****	3.89	*****	0.1770	9.55	1.26
JUL 16,85	JUL 15,85	831.0	15.1	*****	4.56	*****	0.0466	1.35	0.23
JUL 23,85	JUL 22,85	*****	*****	*****	*****	*****	*****	*****	*****
JUL 27,85	JUL 26,85	62.0	68.2	*****	3.92	*****	0.1750	7.45	1.06
JUL 30,85	JUL 29,85	208.0	80.8	*****	3.91	*****	0.1810	9.90	1.64
AUG 1,85	JUL 31,85	224.0	LG 5.9	*****	B 6.18	*****	LG 0.0183	0.70	0.22
AUG 8,85	AUG 7,85	80.0	15.8	*****	4.64	*****	0.0484	1.70	0.36
AUG 15,85	AUG 14,85	779.0	56.0	*****	3.97	*****	0.1520	6.40	0.65
AUG 25,85	AUG 24,85	1974.0	39.6	*****	4.11	*****	0.1050	4.05	0.42
AUG 27,85	AUG 26,85	135.0	67.7	*****	3.88	*****	0.1720	7.70	0.50
AUG 30,85	AUG 29,85	1951.0	21.8	*****	4.47	*****	0.0591	2.60	0.26
SEP 4,85	SEP 3,85	887.0	52.2	*****	4.01	*****	0.1320	5.65	0.51

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM

#12

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAY 1,85	APR 29,85	UG 1.70	0.26	0.300	0.170	0.150	1.750	0.0891
MAY 5,85	MAY 4,85	0.62	0.20	0.095	<T 0.015	<T 0.010	1.100	0.0724
MAY 6,85	MAY 5,85	*****	0.07	0.020	<T 0.005	<T 0.010	0.660	0.0490
MAY 7,85	MAY 6,85	*****	<T 0.04	0.020	<W 0.005	<T 0.005	0.190	0.0295
MAY 8,85	MAY 7,85	*****	<T 0.04	*****	*****	*****	0.255	0.0468
MAY 10,85	MAY 8,85	1.20	0.15	0.200	0.060	0.120	0.795	0.0389
MAY 16,85	MAY 10,85	0.78	0.53	0.150	0.110	0.220	1.350	0.3162
MAY 20,85	MAY 16,85	*****	0.71	*****	*****	*****	UG 3.750	LG 0.0000
MAY 21,85	MAY 20,85	0.75	0.23	0.125	0.130	0.105	0.560	0.0676
MAY 26,85	MAY 21,85	1.20	0.09	0.230	0.080	0.070	0.465	0.0166
MAY 27,85	MAY 26,85	0.16	<T 0.03	0.020	0.025	0.035	0.330	0.0355
MAY 28,85	MAY 27,85	0.14	<T 0.03	0.015	0.025	0.025	0.670	0.0347
MAY 31,85	MAY 28,85	0.97	0.40	0.155	0.080	0.280	1.150	0.1660
JUN 1,85	MAY 31,85	0.38	<T 0.03	0.060	0.045	0.065	0.365	0.0389
JUN 6,85	JUN 5,85	0.14	0.11	0.020	0.030	<T 0.020	0.530	0.0832
JUN 8,85	JUN 7,85	*****	0.29	*****	*****	*****	0.470	0.0871
JUN 12,85	JUN 11,85	0.10	<T 0.05	0.015	<T 0.010	<W 0.005	0.140	0.0302
JUN 14,85	JUN 13,85	0.09	<T 0.03	<T 0.005	<T 0.005	<W 0.005	0.115	0.0209
JUN 17,85	JUN 16,85	0.20	0.12	0.030	0.115	<T 0.015	0.620	0.1148
JUN 18,85	JUN 17,85	0.09	<T 0.06	<T 0.010	<T 0.020	<W 0.005	0.300	0.0513
JUN 19,85	JUN 18,85	0.91	0.08	0.075	0.050	<T 0.015	0.455	LG 0.0002
JUN 23,85	JUN 22,85	0.18	0.08	0.020	0.025	<T 0.010	0.275	0.0562
JUN 24,85	JUN 23,85	0.93	0.36	0.200	0.165	0.180	1.250	0.0933
JUN 29,85	JUN 28,85	0.22	0.13	0.060	0.035	0.070	0.235	LG 0.0012
JUL 2,85	JUL 1,85	*****	0.39	*****	*****	*****	0.235	0.1148
JUL 3,85	JUL 2,85	0.63	0.39	0.145	0.080	0.070	0.480	0.1950
JUL 8,85	JUL 7,85	0.48	<T 0.06	0.110	0.060	0.030	0.440	0.0363
JUL 11,85	JUL 10,85	0.17	<T 0.04	<T 0.010	0.030	<T 0.005	0.180	0.0309
JUL 15,85	JUL 14,85	0.99	0.29	0.155	0.150	0.135	1.300	0.1288
JUL 16,85	JUL 15,85	0.13	<T 0.03	<T 0.010	0.020	<T 0.005	0.170	0.0275
JUL 23,85	JUL 22,85	*****	*****	*****	*****	*****	*****	*****
JUL 27,85	JUL 26,85	0.72	0.30	0.170	0.035	0.105	0.505	0.1202
JUL 30,85	JUL 29,85	1.51	0.45	0.330	0.120	0.120	1.020	0.1230
AUG 1,85	JUL 31,85	0.15	0.10	0.045	0.065	0.070	0.275	B 0.0007
AUG 8,85	AUG 7,85	0.37	0.07	0.105	0.030	0.050	0.050	0.0229
AUG 15,85	AUG 14,85	0.20	0.12	0.050	0.025	0.030	0.470	0.1072
AUG 25,85	AUG 24,85	0.22	0.09	0.030	<T 0.020	0.025	0.370	0.0776
AUG 27,85	AUG 26,85	0.20	0.15	0.035	0.030	0.110	0.540	0.1318
AUG 30,85	AUG 29,85	0.06	<T 0.04	0.015	<T 0.005	<T 0.010	0.510	0.0339
SEP 4,85	SEP 3,85	0.26	0.13	0.045	<W 0.005	0.035	0.535	0.0977

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM

#12

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
SEP 13,85	SEP 12,85	630 630	**** ****	1	0.4	1	52071	2	1	****	E
SEP 25,85	SEP 24,85	630 630	1000 1300	1	1.2	1	52072	2	1	37	N
SEP 28,85	SEP 27,85	630 630	1200 1800	1	35.8	1	52073	2	1	84	
OCT 1,85	SEP 30,85	630 630	1100 1800	1	8.0	1	52074	2	1	91	
OCT 5,85	OCT 4,85	630 630	**** ****	1	16.4	1	52075	2	1	101	
OCT 7,85	OCT 6,85	630 630	**** ****	1	0.4	1	52076	2	1	****	GE
OCT 9,85	OCT 8,85	630 930	100 1200	1	3.1	1	52077	2	1	92	
OCT 13,85	OCT 12,85	630 630	**** ****	1	26.2	1	52078	2	1	104	
OCT 19,85	OCT 18,85	630 630	**** ****	1	21.0	1	52079	2	1	31	N
NOV 5,85	NOV 4,85	1830 1830	230 900	1	17.2	1	52080	2	1	78	
NOV 6,85	NOV 5,85	1830 1830	**** ****	1	24.0	1	52081	2	1	90	C
NOV 9,85	NOV 8,85	1830 1830	**** ****	1	24.2	1	52082	2	1	86	
NOV 11,85	NOV 10,85	1830 1830	**** ****	3	3.8	1	52085	2	1	88	
NOV 14,85	NOV 13,85	1830 1830	**** ****	3	24.0	1	52086	2	1	U 111	CG
NOV 23,85	NOV 22,85	1830 1830	**** ****	2	11.0	2	52087	2	1	U 15	F
NOV 28,85	NOV 27,85	1830 1830	**** ****	2	1.0	2	52088	2	1	****	FE
DEC 2,85	DEC 1,85	1830 1830	**** ****	2	1.2	2	52089	2	1	****	FE
DEC 14,85	DEC 13,85	1830 1830	**** ****	2	9.0	2	52090	2	1	****	FE
DEC 16,85	DEC 15,85	1830 1830	**** ****	2	11.8	2	52091	2	1	****	FE
DEC 18,85	DEC 17,85	1800 1800	1700 2300	2	11.2	2	52092	2	1	73	
DEC 23,85	DEC 22,85	1830 1830	**** ****	2	1.8	2	52093	2	1	****	E
DEC 25,85	DEC 24,85	1830 1830	**** ****	3	7.0	2	52095	2	1	16	N
DEC 28,85	DEC 27,85	1830 1830	**** ****	2	6.2	2	52096	2	1	U 3	I

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM

#12

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 13,85	SEP 12,85	*****	*****	*****	*****	*****	*****	*****	*****
SEP 25,85	SEP 24,85	29.0	*****	*****	3.88	*****	0.2190	*****	*****
SEP 28,85	SEP 27,85	1944.0	11.1	*****	4.75	*****	0.0372	0.85	0.15
OCT 1,85	SEP 30,85	468.0	27.6	*****	4.28	*****	0.0798	2.55	0.26
OCT 5,85	OCT 4,85	1070.0	35.2	*****	4.21	*****	0.0907	2.60	0.65
OCT 7,85	OCT 6,85	*****	*****	*****	*****	*****	*****	*****	*****
OCT 9,85	OCT 8,85	183.0	69.6	*****	3.90	*****	0.1700	6.15	1.13
OCT 13,85	OCT 12,85	1757.0	47.9	*****	4.09	*****	0.1180	4.30	0.78
OCT 19,85	OCT 18,85	424.0	39.2	*****	4.18	*****	0.1000	2.90	0.67
NOV 5,85	NOV 4,85	871.0	11.0	*****	4.72	*****	0.0386	0.85	0.15
NOV 6,85	NOV 5,85	1397.0	5.3	*****	UG 5.40	*****	0.0248	0.35	0.07
NOV 9,85	NOV 8,85	1346.0	25.2	*****	4.31	*****	0.0724	1.50	0.56
NOV 11,85	NOV 10,85	216.0	51.3	*****	4.01	*****	0.1280	4.80	0.79
NOV 14,85	NOV 13,85	1714.0	11.2	*****	5.00	*****	0.0273	1.50	0.17
NOV 23,85	NOV 22,85	109.0	62.9	*****	3.96	*****	0.1520	4.40	1.56
NOV 28,85	NOV 27,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 2,85	DEC 1,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 14,85	DEC 13,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 16,85	DEC 15,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 18,85	DEC 17,85	530.0	34.1	*****	4.18	*****	0.0946	1.00	0.95
DEC 23,85	DEC 22,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 25,85	DEC 24,85	73.0	57.2	*****	3.92	*****	0.1590	3.70	1.27
DEC 28,85	DEC 27,85	15.0	*****	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY/AEROCHEM

#12

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 13,85	SEP 12,85	*****	*****	*****	*****	*****	*****	*****
SEP 25,85	SEP 24,85	*****	*****	*****	*****	*****	*****	0.1318
SEP 28,85	SEP 27,85	0.08	<T 0.04	<T 0.010	<T 0.010	<T 0.015	0.085	0.0178
OCT 1,85	SEP 30,85	0.12	0.10	0.020	<T 0.010	0.020	0.075	0.0525
OCT 5,85	OCT 4,85	0.19	0.10	0.025	0.035	0.025	0.265	0.0617
OCT 7,85	OCT 6,85	*****	*****	*****	*****	*****	*****	*****
OCT 9,85	OCT 8,85	0.76	0.31	0.100	0.065	0.065	0.295	0.1259
OCT 13,85	OCT 12,85	0.16	0.26	0.040	0.035	0.100	0.525	0.0813
OCT 19,85	OCT 18,85	0.19	0.22	0.025	<T 0.010	0.020	0.225	0.0661
NOV 5,85	NOV 4,85	0.09	<T 0.06	<T 0.015	<T 0.005	0.030	0.050	0.0191
NOV 6,85	NOV 5,85	0.05	0.08	<T 0.005	<T 0.020	0.040	0.075	LG 0.0040
NOV 9,85	NOV 8,85	0.13	0.13	0.020	0.035	0.035	0.245	0.0490
NOV 11,85	NOV 10,85	0.22	0.29	0.035	0.070	0.140	0.595	0.0977
NOV 14,85	NOV 13,85	0.30	<T 0.03	0.120	<T 0.010	0.035	0.085	0.0100
NOV 23,85	NOV 22,85	0.39	0.35	0.085	0.055	0.185	0.750	0.1096
NOV 28,85	NOV 27,85	*****	*****	*****	*****	*****	*****	*****
DEC 2,85	DEC 1,85	*****	*****	*****	*****	*****	*****	*****
DEC 14,85	DEC 13,85	*****	*****	*****	*****	*****	*****	*****
DEC 16,85	DEC 15,85	*****	*****	*****	*****	*****	*****	*****
DEC 18,85	DEC 17,85	0.15	0.40	0.015	<T 0.005	0.165	0.120	0.0661
DEC 23,85	DEC 22,85	*****	*****	*****	*****	*****	*****	*****
DEC 25,85	DEC 24,85	0.33	0.49	0.055	0.035	0.220	0.370	0.1202
DEC 28,85	DEC 27,85	*****	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
OCT 25,85	OCT 24,85	830 830	1000 1600	1	8.8	1	22335	2	1	88	
NOV 4,85	NOV 3,85	830 830	****	1	12.2	1	22336	2	1	102	
NOV 5,85	NOV 4,85	830 830	2200	1	5.2	1	22337	2	1	86	
NOV 6,85	NOV 5,85	830 830	****	1	13.6	1	22338	2	1	85	HC
NOV 7,85	NOV 6,85	830 830	930 1100	1	1.4	1	22339	2	1	70	C
NOV 8,85	NOV 7,85	830 830	1700 2000	1	1.8	1	22340	2	1	102	
NOV 10,85	NOV 9,85	830 900	1830	3	18.6	1	22341	2	1	92	M
NOV 11,85	NOV 10,85	900 830	2200 2330	2	1.2	1	22344	2	1	50	A
NOV 13,85	NOV 12,85	830 830	****	1	25.8	1	22345	2	1	102	
NOV 15,85	NOV 14,85	830 830	1330 1500	1	8.0	1	22346	2	1	80	
NOV 17,85	NOV 16,85	830 830	1500 1730	1	7.4	1	22347	2	1	106	
NOV 19,85	NOV 18,85	830 830	1730 1800	1	0.8	1	22348	2	1	103	D
NOV 20,85	NOV 19,85	830 830	****	1	0.2	1	22349	2	1	93	
NOV 23,85	NOV 22,85	830 830	1130 1500	2	3.4	1	22351	2	1	122	NC
NOV 25,85	NOV 24,85	830 830	****	2	0.8	1	22352	2	1	79	CD
DEC 2,85	DEC 1,85	900 830	****	1	11.6	2	22357	2	1	28	
DEC 11,85	DEC 10,85	830 830	1300 1730	2	2.8	2	22359	2	1	86	N
DEC 12,85	DEC 11,85	830 830	****	2	6.0	2	22360	2	1	49	NM
DEC 14,85	DEC 13,85	830 830	1400 2400	2	7.6	2	22362	2	1	95	M
DEC 15,85	DEC 14,85	830 830	****	2	2.0	1	22363	2	1	35	N
DEC 17,85	DEC 16,85	830 830	****	2	2.5	1	22364	2	1	68	
DEC 19,85	DEC 18,85	830 830	1600 1645	2	1.6	2	22366	2	1	92	
DEC 21,85	DEC 20,85	830 830	1500 1700	2	1.6	2	22368	2	1	24	N
DEC 23,85	DEC 22,85	830 830	830 2130	3	13.4	2	22370	2	1	46	N
DEC 24,85	DEC 23,85	830 830	****	3	4.6	2	22371	2	1	66	
DEC 27,85	DEC 26,85	830 830	****	2	6.4	2	22374	2	1	30	N
DEC 29,85	DEC 28,85	830 830	****	2	1.8	2	22376	2	1	36	NH
DEC 30,85	DEC 29,85	830 900	****	2	0.6	2	22377	2	1	38	I
JAN 1,86	DEC 31,85	830 830	1030 1215	3	1.4	2	22379	2	1	33	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM

#9A

PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 25,85	OCT 24,85	500.0	16.2	*****	4.73	*****	0.0405	1.95	0.28
NOV 4,85	NOV 3,85	802.0	5.3	*****	5.25	*****	0.0230	0.40	0.11
NOV 5,85	NOV 4,85	288.0	5.9	*****	5.18	*****	0.0262	0.35	0.11
NOV 6,85	NOV 5,85	745.0	4.5	*****	UG 5.37	*****	0.0258	LG 0.30	0.07
NOV 7,85	NOV 6,85	63.0	5.7	*****	5.16	*****	0.0260	LG 0.30	0.09
NOV 8,85	NOV 7,85	118.0	49.4	*****	4.00	*****	0.1270	3.60	0.94
NOV 10,85	NOV 9,85	1100.0	24.1	*****	4.39	*****	0.0644	1.30	0.54
NOV 11,85	NOV 10,85	39.0	44.5	*****	4.04	*****	0.1180	3.80	0.66
NOV 13,85	NOV 12,85	1687.0	23.9	*****	4.34	*****	0.0738	1.80	0.23
NOV 15,85	NOV 14,85	414.0	11.8	*****	4.68	*****	0.0386	0.95	0.09
NOV 17,85	NOV 16,85	505.0	16.8	*****	4.51	*****	0.0500	0.95	0.32
NOV 19,85	NOV 18,85	53.0	49.8	*****	4.07	*****	0.1220	4.85	0.73
NOV 20,85	NOV 19,85	12.0	*****	*****	*****	*****	*****	*****	*****
NOV 23,85	NOV 22,85	266.0	6.8	*****	5.09	*****	0.0248	0.45	0.11
NOV 25,85	NOV 24,85	41.0	> 100.0	*****	LG 3.46	*****	UG 0.4260	7.90	UG 5.55
DEC 2,85	DEC 1,85	215.0	24.5	*****	4.34	*****	0.0705	1.55	0.53
DEC 11,85	DEC 10,85	155.0	23.5	*****	4.51	*****	0.0598	1.70	0.63
DEC 12,85	DEC 11,85	191.0	17.3	*****	4.54	*****	0.0533	0.45	0.49
DEC 14,85	DEC 13,85	466.0	20.0	*****	4.46	*****	0.0602	0.55	0.53
DEC 15,85	DEC 14,85	45.0	23.3	*****	4.40	*****	0.0691	0.80	0.79
DEC 17,85	DEC 16,85	110.0	18.9	*****	4.48	*****	0.0588	LG 0.25	0.59
DEC 19,85	DEC 18,85	95.0	35.3	*****	4.25	*****	0.0849	0.70	1.38
DEC 21,85	DEC 20,85	25.0	*****	*****	4.10	*****	0.1220	*****	*****
DEC 23,85	DEC 22,85	402.0	51.0	*****	4.03	*****	0.1310	3.35	1.18
DEC 24,85	DEC 23,85	197.0	72.2	*****	3.88	*****	0.1770	5.45	1.44
DEC 27,85	DEC 26,85	126.0	32.6	*****	4.43	*****	0.0684	1.45	1.39
DEC 29,85	DEC 28,85	42.0	17.4	*****	4.95	*****	0.0345	0.55	0.98
DEC 30,85	DEC 29,85	15.0	*****	*****	*****	*****	*****	*****	*****
JAN 1,86	DEC 31,85	30.0	77.0	*****	3.83	*****	0.2030	5.05	1.86

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WILMER/DAILY/AEROCHEM		#9A								PAGE : 3
REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L		
OCT 25,85	OCT 24,85	0.48	0.10	0.040	<T 0.015	0.095	0.145	0.0186		
NOV 4,85	NOV 3,85	0.11	0.17	0.015	0.050	0.080	LG 0.020	0.0056		
NOV 5,85	NOV 4,85	0.12	0.10	0.015	0.025	0.070	0.045	0.0066		
NOV 6,85	NOV 5,85	0.10	<T 0.05	<T 0.010	<T 0.015	0.060	0.050	LG 0.0043		
NOV 7,85	NOV 6,85	0.12	0.07	<T 0.010	<T 0.010	0.080	LG 0.015	0.0069		
NOV 8,85	NOV 7,85	0.34	0.17	0.035	0.040	0.045	0.300	0.1000		
NOV 10,85	NOV 9,85	0.13	0.66	0.015	0.080	0.110	0.165	0.0407		
NOV 11,85	NOV 10,85	*****	0.09	*****	*****	*****	0.135	0.0912		
NOV 13,85	NOV 12,85	<T 0.03	<T 0.04	<T 0.005	<T 0.015	0.035	0.115	0.0457		
NOV 15,85	NOV 14,85	<T 0.01	<W 0.01	<W 0.005	<W 0.005	<T 0.010	0.025	0.0209		
NOV 17,85	NOV 16,85	<T 0.04	<T 0.03	<T 0.005	<T 0.005	0.040	0.075	0.0309		
NOV 19,85	NOV 18,85	0.78	0.50	0.120	0.060	0.495	0.070	0.0851		
NOV 20,85	NOV 19,85	*****	*****	*****	*****	*****	*****	*****		
NOV 23,85	NOV 22,85	0.09	<T 0.03	<T 0.015	<T 0.005	0.030	0.025	0.0081		
NOV 25,85	NOV 24,85	*****	1.11	*****	*****	*****	1.830	UG 0.3467		
DEC 2,85	DEC 1,85	0.10	0.10	<T 0.010	<T 0.010	0.035	0.165	0.0457		
DEC 11,85	DEC 10,85	0.44	0.30	0.075	<T 0.020	0.190	0.130	0.0309		
DEC 12,85	DEC 11,85	0.12	0.12	<T 0.010	<T 0.005	0.070	<T 0.005	0.0288		
DEC 14,85	DEC 13,85	0.06	0.10	<T 0.005	<W 0.005	0.040	0.030	0.0347		
DEC 15,85	DEC 14,85	0.35	0.30	0.050	0.040	0.355	0.025	0.0398		
DEC 17,85	DEC 16,85	0.10	0.07	<T 0.010	<W 0.005	0.055	0.030	0.0331		
DEC 19,85	DEC 18,85	0.86	0.57	0.035	0.085	0.190	0.080	0.0562		
DEC 21,85	DEC 20,85	0.65	*****	0.07	0.075	0.505	*****	0.0794		
DEC 23,85	DEC 22,85	0.30	0.38	0.015	0.055	0.125	0.460	0.0933		
DEC 24,85	DEC 23,85	0.18	0.43	<T 0.015	0.055	0.125	0.800	0.1318		
DEC 27,85	DEC 26,85	0.77	0.57	0.100	0.025	0.295	0.500	0.0372		
DEC 29,85	DEC 28,85	0.23	0.30	0.025	0.035	0.150	0.910	0.0112		
DEC 30,85	DEC 29,85	*****	*****	*****	*****	*****	*****	*****		
JAN 1,86	DEC 31,85	*****	0.50	*****	*****	*****	*****	0.1479		

PART VI

NORTHWESTERN REGION

DAILY PRECIPITATION CHEMISTRY LISTINGS

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM

#16

PAGE : 1

REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE		
JAN 7,85	JAN 6,85	830 830	****	****	2	****	2	32241	2	1	****	CD	
FEB 10,85	FEB 9,85	830 830	100 500	2	14.3	2	32244	2	1	48	CQ	N	
FEB 16,85	FEB 15,85	830 830	****	****	2	6.5	2	32245	2	1	31		N
FEB 26,85	FEB 25,85	100 830	100 830	2	4.2	2	32246	2	1	61	C		
MAR 13,85	MAR 12,85	830 830	300 800	2	3.8	2	32254	2	1	32		NH	
MAR 20,85	MAR 19,85	830 830	1000 1300	2	5.9	2	32255	2	1	33		N	
APR 13,85	APR 12,85	830 830	2000 ****	1	24.0	1	32256	2	1	109		N	
APR 21,85	APR 20,85	830 830	1200 300	1	7.7	1	32263	2	1	U 102	BFJC	M	
APR 22,85	APR 21,85	830 830	6100 300	1	1.3	1	32264	2	1	U 75	FJC	M	
APR 23,85	APR 22,85	830 830	2000 830	1	15.4	1	32265	2	1	101	C		
APR 30,85	APR 29,85	830 830	****	****	1	6.0	1	32266	2	1	81	C	
MAY 5,85	MAY 4,85	730 830	730 1100	1	7.0	1	32267	2	1	86	ABC		
MAY 8,85	MAY 7,85	830 830	1330 1530	1	10.9	1	32268	2	1	92	C		
MAY 11,85	MAY 10,85	830 830	2200 100	1	14.9	1	32269	2	1	99	C		
MAY 13,85	MAY 12,85	830 830	1700 1800	1	7.2	1	32270	2	1	95	C		
MAY 15,85	MAY 14,85	830 1330	600 900	1	5.7	1	32271	2	1	97	C		
MAY 26,85	MAY 25,85	830 830	900 1200	1	11.0	1	32272	2	1	89	C	H	
MAY 29,85	MAY 28,85	830 830	2400 400	1	30.2	1	32273	2	1	118		HM	
JUN 5,85	JUN 4,85	830 830	1500 1800	1	7.4	1	32278	2	1	****	EG		
JUN 9,85	JUN 8,85	830 830	1400 1530	1	7.2	1	32274	2	1	89	C	HCM	
JUN 21,85	JUN 20,85	830 830	1200 200	1	4.5	1	32275	2	1	98	C		
JUN 22,85	JUN 21,85	830 830	2230 ****	1	12.2	1	32279	2	1	U 0	CEF		
JUL 2,85	JUL 1,85	830 830	1200 1400	1	6.2	1	32276	2	1	76	C	H	
JUL 3,85	JUL 2,85	830 830	2400 400	1	7.4	1	32277	2	1	91			
JUL 5,85	JUL 4,85	830 830	****	****	1	0.1	1	32280	2	1	****	EK	
JUL 16,85	JUL 15,85	830 830	****	****	1	2.2	1	32282	2	1	225		NH
JUL 21,85	JUL 20,85	830 830	****	****	1	3.2	1	32287	2	1	126		NCM
JUL 23,85	JUL 22,85	830 830	****	****	1	23.7	1	32283	2	1	5	A	NHM
JUL 29,85	JUL 28,85	830 830	****	****	1	3.3	1	32284	2	1	79	C	
JUL 30,85	JUL 29,85	830 830	****	****	1	0.6	1	32285	2	1	****	G	
AUG 8,85	AUG 7,85	830 830	****	****	1	24.6	1	32286	2	1	87	C	H
AUG 17,85	AUG 16,85	830 830	****	****	1	14.5	1	32288	2	1	58	D	
AUG 18,85	AUG 17,85	830 830	1700 1900	1	8.0	1	32289	2	1	62	DQ	C	
AUG 22,85	AUG 21,85	830 830	1800 2000	1	10.2	1	32290	2	1	73	Q	C	
AUG 23,85	AUG 22,85	830 830	1300 1900	1	5.9	1	32291	2	1	48	C	N	
AUG 29,85	AUG 28,85	830 830	1900 200	1	3.2	1	32292	2	1	114	C	HM	
AUG 31,85	AUG 30,85	830 830	****	****	1	3.0	1	32293	2	1	93	Q	
SEP 3,85	SEP 2,85	830 830	****	****	1	16.0	1	32294	2	1	73		
SEP 6,85	SEP 5,85	830 830	200 600	1	4.2	1	32295	2	1	86	CD		
SEP 17,85	SEP 16,85	830 830	1200 1900	1	27.3	1	32296	2	1	35	Q	N	

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM

#16

PAGE : 2

REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 7,85	JAN 6,85	66.0	10.3	*****	4.82	*****	0.0342	0.75	0.25
FEB 10,85	FEB 9,85	447.0	18.0	*****	4.45	*****	0.0582	0.45	0.55
FEB 16,85	FEB 15,85	132.0	42.1	*****	4.33	*****	UG 0.0900	5.00	1.14
FEB 26,85	FEB 25,85	165.0	17.6	*****	5.09	*****	0.0320	2.85	0.52
MAR 13,85	MAR 12,85	78.0	12.1	*****	5.77	*****	0.0240	D 2.05	0.35
MAR 20,85	MAR 19,85	128.0	13.1	*****	5.03	*****	0.0310	1.05	0.17
APR 13,85	APR 12,85	1685.0	8.8	*****	5.63	*****	0.0228	1.80	D 0.27
APR 21,85	APR 20,85	508.0	21.6	*****	UG 7.14	*****	0.0264	2.10	0.55
APR 22,85	APR 21,85	63.0	29.6	*****	UG 7.28	*****	0.0178	3.30	0.56
APR 23,85	APR 22,85	998.0	13.3	*****	4.84	*****	0.0356	1.60	0.27
APR 30,85	APR 29,85	313.0	15.4	*****	UG 6.97	*****	0.0200	1.75	0.54
MAY 5,85	MAY 4,85	388.0	UG 34.8	*****	UG 7.05	*****	0.0208	UG 5.05	UG 1.35
MAY 8,85	MAY 7,85	644.0	9.1	*****	UG 6.71	*****	0.0190	1.45	0.25
MAY 11,85	MAY 10,85	953.0	8.3	*****	UG 6.53	*****	0.0214	1.10	0.34
MAY 13,85	MAY 12,85	442.0	9.4	*****	6.30	*****	0.0197	1.55	0.26
MAY 15,85	MAY 14,85	358.0	UG 28.7	*****	4.34	*****	UG 0.0738	3.25	0.50
MAY 26,85	MAY 25,85	632.0	7.5	*****	5.22	*****	0.0270	0.85	0.16
MAY 29,85	MAY 28,85	2294.0	5.0	*****	5.29	*****	0.0253	0.40	0.09
JUN 5,85	JUN 4,85	*****	*****	*****	*****	*****	*****	*****	*****
JUN 9,85	JUN 8,85	415.0	8.7	*****	UG 6.99	*****	0.0150	1.25	D 0.77
JUN 21,85	JUN 20,85	285.0	24.0	*****	UG 7.52	*****	LG 0.0098	1.80	0.43
JUN 22,85	JUN 21,85	7.0	*****	*****	*****	*****	*****	*****	*****
JUL 2,85	JUL 1,85	304.0	14.4	*****	5.18	*****	0.0267	2.55	0.41
JUL 3,85	JUL 2,85	432.0	14.4	*****	5.15	*****	0.0289	2.30	0.39
JUL 5,85	JUL 4,85	*****	*****	*****	*****	*****	*****	*****	*****
JUL 16,85	JUL 15,85	318.0	D 12.2	*****	5.93	*****	0.0277	1.65	D 0.28
JUL 21,85	JUL 20,85	260.0	LG 2.4	*****	5.44	*****	0.0207	LG 0.15	<T 0.04
JUL 23,85	JUL 22,85	84.0	3.4	*****	5.42	*****	0.0225	0.40	<T 0.02
JUL 29,85	JUL 28,85	169.0	26.9	*****	6.31	*****	0.0352	2.85	0.15
JUL 30,85	JUL 29,85	*****	*****	*****	*****	*****	*****	*****	*****
AUG 8,85	AUG 7,85	1375.0	11.5	*****	4.72	*****	0.0429	1.50	0.24
AUG 17,85	AUG 16,85	548.0	22.8	*****	4.54	*****	0.0502	3.30	0.62
AUG 18,85	AUG 17,85	318.0	6.9	*****	5.96	*****	0.0189	0.85	0.19
AUG 22,85	AUG 21,85	480.0	12.5	*****	UG 6.94	*****	0.0178	2.05	<T 0.05
AUG 23,85	AUG 22,85	182.0	11.3	*****	UG 6.74	*****	0.0177	1.70	0.45
AUG 29,85	AUG 28,85	235.0	5.9	*****	4.98	*****	0.0271	0.40	0.10
AUG 31,85	AUG 30,85	180.0	12.4	*****	5.05	*****	0.0315	1.20	0.44
SEP 3,85	SEP 2,85	753.0	12.1	*****	4.89	*****	0.0329	1.30	0.24
SEP 6,85	SEP 5,85	233.0	12.9	*****	5.07	*****	0.0304	1.45	0.41
SEP 17,85	SEP 16,85	620.0	24.4	*****	4.69	*****	0.0471	3.80	0.24

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM

#16

PAGE : 3

REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 7,85	JAN 6,85	0.26	0.15	0.035	0.045	0.130	<T 0.005	0.0151
FEB 10,85	FEB 9,85	0.07	0.07	<T 0.015	0.025	0.025	0.025	0.0355
FEB 16,85	FEB 15,85	0.19	0.17	0.035	0.075	0.285	1.500	0.0468
FEB 26,85	FEB 25,85	0.10	0.08	0.030	0.035	0.080	1.100	0.0081
MAR 13,85	MAR 12,85	0.54	0.09	0.050	0.035	0.085	0.565	0.0017
MAR 20,85	MAR 19,85	0.24	UG 1.51	0.030	0.035	UG 1.250	<W 0.005	0.0093
APR 13,85	APR 12,85	0.11	0.07	0.020	<T 0.005	<T 0.015	D 0.555	0.0023
APR 21,85	APR 20,85	UG 1.74	0.16	0.255	0.250	0.125	1.200	LG 0.0001
APR 22,85	APR 21,85	UG 2.50	0.34	0.365	0.475	0.280	1.800	LG 0.0001
APR 23,85	APR 22,85	0.08	0.03	0.030	<T 0.020	0.040	0.430	0.0145
APR 30,85	APR 29,85	0.55	0.05	0.135	0.085	0.060	1.200	LG 0.0001
MAY 5,85	MAY 4,85	UG 2.10	0.23	0.325	UG 0.225	0.150	UG 2.150	LG 0.0001
MAY 8,85	MAY 7,85	0.59	0.05	0.125	0.110	0.165	0.300	LG 0.0002
MAY 11,85	MAY 10,85	0.51	0.04	0.100	0.045	0.040	0.390	LG 0.0003
MAY 13,85	MAY 12,85	0.57	0.18	0.100	0.060	0.115	0.350	0.0005
MAY 15,85	MAY 14,85	0.34	0.07	0.070	0.025	0.055	0.390	0.0457
MAY 26,85	MAY 25,85	0.14	<T 0.02	0.030	0.035	<T 0.020	D 0.255	0.0060
MAY 29,85	MAY 28,85	0.11	<W 0.01	0.020	0.025	<T 0.010	0.095	0.0051
JUN 5,85	JUN 4,85	*****	*****	*****	*****	*****	*****	*****
JUN 9,85	JUN 8,85	0.58	0.09	0.110	0.055	0.030	0.610	LG 0.0001
JUN 21,85	JUN 20,85	UG 2.55	0.17	0.340	0.145	0.025	1.200	LG 0.0000
JUN 22,85	JUN 21,85	*****	*****	*****	*****	*****	*****	*****
JUL 2,85	JUL 1,85	0.51	0.12	0.100	0.065	UG 0.490	0.435	0.0066
JUL 3,85	JUL 2,85	0.37	0.10	0.095	0.065	UG 0.450	0.390	0.0071
JUL 5,85	JUL 4,85	*****	*****	*****	*****	*****	*****	*****
JUL 16,85	JUL 15,85	0.34	B 0.66	0.065	D 0.130	B 0.650	0.400	0.0012
JUL 21,85	JUL 20,85	<T 0.02	<T 0.04	<W 0.005	<T 0.020	<T 0.005	<T 0.005	0.0036
JUL 23,85	JUL 22,85	0.17	0.09	0.040	0.060	0.085	0.035	0.0038
JUL 29,85	JUL 28,85	1.20	U 3.00	0.100	UG 0.300	U 3.690	LG 0.015	0.0005
JUL 30,85	JUL 29,85	*****	*****	*****	*****	*****	*****	*****
AUG 8,85	AUG 7,85	0.42	0.09	0.040	0.035	0.085	0.155	0.0191
AUG 17,85	AUG 16,85	0.48	0.15	0.110	0.060	0.035	0.705	0.0288
AUG 18,85	AUG 17,85	0.24	<T 0.06	0.055	0.050	0.045	0.195	0.0011
AUG 22,85	AUG 21,85	0.90	0.09	0.165	0.040	0.030	0.475	LG 0.0001
AUG 23,85	AUG 22,85	0.88	0.12	0.155	0.040	0.030	0.440	LG 0.0002
AUG 29,85	AUG 28,85	0.23	0.07	0.020	0.030	<T 0.020	0.030	0.0105
AUG 31,85	AUG 30,85	0.43	0.24	0.050	0.095	0.060	0.325	0.0089
SEP 3,85	SEP 2,85	0.04	<T 0.05	<T 0.015	<T 0.020	<T 0.020	0.335	0.0129
SEP 6,85	SEP 5,85	0.32	0.09	0.040	0.045	0.050	0.415	0.0085
SEP 17,85	SEP 16,85	0.39	B 0.92	0.045	0.085	B 0.715	0.650	0.0204

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
SEP 20,85	SEP 19,85	830 830	1000 1300	1	13.2	1	32297	2	1	93	Q
SEP 24,85	SEP 23,85	830 830	**** ****	1	37.2	1	32298	2	1	98	C C
OCT 1,85	SEP 30,85	830 830	1500 300	3	****	1	32300	2	1	****	
OCT 10,85	OCT 9,85	830 830	**** ****	1	8.0	1	32301	2	1	54	
OCT 23,85	OCT 22,85	830 830	1000 1100	3	1.4	1	32303	2	1	79	CDQ
OCT 24,85	OCT 23,85	830 830	1100 1200	1	0.8	1	32302	2	1	60	
NOV 1,85	OCT 31,85	830 830	**** ****	3	13.2	1	32304	2	1	166	AD NC
NOV 17,85	NOV 16,85	830 830	100 600	2	9.1	2	32310	2	1	65	CQ
NOV 18,85	NOV 17,85	830 830	1100 2000	2	10.3	2	32311	2	1	73	C
DEC 13,85	DEC 12,85	830 830	**** ****	2	0.1	2	32305	2	1	****	E
DEC 24,85	DEC 23,85	830 830	1000 1300	2	2.2	2	32307	2	1	102	CD
DEC 27,85	DEC 26,85	830 830	100 400	2	0.2	2	32308	2	1	358	N
DEC 29,85	DEC 28,85	830 830	**** ****	2	0.2	2	32309	2	1	202	N

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
SEP 20,85	SEP 19,85	788.0	7.6	*****	UG 6.56	*****	0.0178	1.10	0.19
SEP 24,85	SEP 23,85	2353.0	2.8	*****	5.45	*****	0.0183	LG 0.15	<T 0.04
OCT 1,85	SEP 30,85	1344.0	3.4	*****	5.15	*****	0.0256	0.25	<T 0.03
OCT 10,85	OCT 9,85	281.0	10.2	*****	5.07	*****	0.0265	1.50	0.28
OCT 23,85	OCT 22,85	71.0	10.6	*****	4.84	*****	0.0355	0.90	0.18
OCT 24,85	OCT 23,85	31.0	19.3	*****	6.02	*****	0.0182	UG 5.10	0.37
NOV 1,85	OCT 31,85	1405.0	11.0	*****	4.99	*****	0.0305	0.80	0.17
NOV 17,85	NOV 16,85	384.0	15.7	*****	4.57	*****	0.0509	1.00	0.35
NOV 18,85	NOV 17,85	484.0	18.2	*****	4.50	*****	0.0571	1.55	0.28
DEC 13,85	DEC 12,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 24,85	DEC 23,85	145.0	11.6	*****	4.73	*****	0.0408	0.65	0.22
DEC 27,85	DEC 26,85	46.0	15.9	*****	4.82	*****	0.0399	1.00	0.30
DEC 29,85	DEC 28,85	26.0	*****	*****	4.73	*****	0.0424	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
SEP 20,85	SEP 19,85	0.24	0.13	0.065	B 0.755	0.080	0.200	LG 0.0003
SEP 24,85	SEP 23,85	0.06	<T 0.03	<T 0.005	<T 0.010	<T 0.010	<T 0.005	0.0035
OCT 1,85	SEP 30,85	<T 0.03	<T 0.04	<W 0.005	0.020	<T 0.010	<W 0.005	0.0071
OCT 10,85	OCT 9,85	0.17	0.08	0.040	0.050	0.035	0.455	0.0085
OCT 23,85	OCT 22,85	0.21	0.25	0.040	0.130	0.105	<W 0.005	0.0145
OCT 24,85	OCT 23,85	*****	0.10	*****	*****	*****	*****	0.0010
NOV 1,85	OCT 31,85	0.11	<T 0.01	0.020	0.020	<T 0.010	0.100	0.0102
NOV 17,85	NOV 16,85	0.25	0.08	0.020	0.020	0.030	0.025	0.0269
NOV 18,85	NOV 17,85	0.08	0.08	<T 0.005	<T 0.020	<T 0.015	0.170	0.0316
DEC 13,85	DEC 12,85	*****	*****	*****	*****	*****	*****	*****
DEC 24,85	DEC 23,85	0.10	0.23	0.020	0.055	0.065	0.025	0.0186
DEC 27,85	DEC 26,85	0.39	UG 1.14	0.075	0.525	UG 0.475	<W 0.005	0.0151
DEC 29,85	DEC 28,85	0.28	*****	0.045	0.105	0.120	*****	0.0186

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JAN 8,85	JAN 7,85	1000 1000	1200 1800	2	7.1	2	34768	2	1	58	CM
JAN 14,85	JAN 13,85	1000 1000	****	2	0.2	2	34770	2	1	****	EK
JAN 15,85	JAN 14,85	1000 1000	****	2	2.5	2	34772	2	1	6	E
JAN 17,85	JAN 16,85	1000 1000	****	2	0.7	2	34774	2	1	64	N
JAN 25,85	JAN 24,85	900 1000	****	2	1.9	2	34778	2	1	****	EK
FEB 5,85	FEB 4,85	1000 1000	****	2	0.5	2	34780	2	1	****	EK
FEB 6,85	FEB 5,85	1000 1600	****	2	1.7	2	34782	2	1	44	D
FEB 10,85	FEB 9,85	1600 1600	****	2	3.4	2	34784	2	1	112	D
FEB 16,85	FEB 15,85	1600 1600	****	2	2.5	2	34786	2	1	94	CD
FEB 17,85	FEB 16,85	1600 1500	1600	2	0.3	2	34788	2	1	****	EK
FEB 19,85	FEB 18,85	1600 1650	****	2	0.8	2	34790	2	1	117	HM
FEB 23,85	FEB 22,85	1600 1630	****	2	0.6	2	34792	2	1	U 91	FJ
FEB 25,85	FEB 24,85	1600 1600	****	2	1.9	2	34794	2	1	U 80	CFJ
FEB 26,85	FEB 25,85	1600 1600	****	2	3.9	2	34796	2	1	U 63	CFJ
MAR 5,85	MAR 3,85	1600 1600	****	2	14.5	2	34798	2	1	U 6	CFJ
MAR 7,85	MAR 6,85	1600 1600	****	2	1.2	2	34800	2	1	U 71	CFJ
MAR 13,85	MAR 12,85	1600 1600	****	2	1.6	2	34802	2	1	U 82	FJ
MAR 16,85	MAR 15,85	1600 1600	****	2	4.2	2	34804	2	1	U 87	CFJ
MAR 26,85	MAR 25,85	1600 1600	****	2	6.1	2	34806	2	1	57	HCM
MAR 27,85	MAR 26,85	1600 1600	****	2	1.4	2	34808	2	1	156	N
MAR 29,85	MAR 28,85	1600 1700	****	2	5.5	2	34810	2	1	29	NC
APR 2,85	APR 1,85	1600 1600	****	2	3.0	2	34812	2	1	83	C
APR 3,85	APR 2,85	1600 1600	****	1	1.3	2	34814	2	1	****	E
APR 13,85	APR 12,85	1600 1600	****	2	13.1	2	34818	2	1	12	C
APR 20,85	APR 19,85	1600 1600	****	1	0.2	2	34822	2	1	585	N
APR 22,85	APR 21,85	1600 1600	****	1	6.4	2	34824	2	1	124	NM
APR 23,85	APR 22,85	1600 1600	****	1	5.2	2	34826	2	1	126	N
APR 24,85	APR 23,85	1600 1600	****	1	9.1	2	34828	2	1	113	N
APR 25,85	APR 24,85	1600 1600	****	1	2.9	2	34830	2	1	123	NHCM
MAY 4,85	MAY 3,85	1600 1600	****	1	22.2	1	34832	2	1	100	C
MAY 5,85	MAY 4,85	1600 1600	****	1	14.6	1	34834	2	1	92	
MAY 6,85	MAY 5,85	1600 1600	****	1	10.6	1	34836	2	1	97	HM
MAY 7,85	MAY 6,85	1600 1600	****	1	3.2	1	34838	2	1	92	C
MAY 11,85	MAY 10,85	1600 1600	****	1	2.8	1	34840	2	1	93	C
MAY 12,85	MAY 11,85	1600 1600	****	1	3.4	1	34842	2	1	94	C
MAY 13,85	MAY 12,85	1600 1600	****	1	1.6	1	34844	2	1	62	C
MAY 14,85	MAY 13,85	1600 1600	****	1	1.0	1	34846	2	1	84	C
MAY 15,85	MAY 14,85	1600 800	****	1	1.1	1	34848	2	1	51	
MAY 16,85	MAY 15,85	800 800	****	1	8.5	1	34850	2	1	89	C
MAY 18,85	MAY 17,85	800 800	****	1	0.4	1	34852	2	1	23	E

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 8,85	JAN 7,85	268.0	LG 2.5	*****	5.50	*****	0.0188	<T 0.15	<T 0.04
JAN 14,85	JAN 13,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 15,85	JAN 14,85	11.0	*****	*****	*****	*****	*****	*****	*****
JAN 17,85	JAN 16,85	29.0	*****	*****	5.54	*****	0.0174	*****	*****
JAN 25,85	JAN 24,85	*****	*****	*****	*****	*****	*****	*****	*****
FEB 5,85	FEB 4,85	*****	*****	*****	*****	*****	*****	*****	*****
FEB 6,85	FEB 5,85	48.0	*****	*****	*****	*****	*****	*****	*****
FEB 10,85	FEB 9,85	245.0	18.2	*****	4.63	*****	0.0432	*****	*****
FEB 16,85	FEB 15,85	151.0	12.9	*****	4.49	*****	0.0537	0.45	0.55
FEB 17,85	FEB 16,85	*****	*****	*****	4.70	*****	0.0395	0.80	0.33
FEB 19,85	FEB 18,85	60.0	8.3	*****	*****	*****	*****	*****	*****
FEB 23,85	FEB 22,85	35.0	U 83.5	*****	5.00	*****	0.0305	0.65	0.21
FEB 25,85	FEB 24,85	98.0	14.5	*****	4.28	*****	UG 0.0993	UG 10.70	U 3.52
FEB 26,85	FEB 25,85	159.0	11.9	*****	5.12	*****	0.0298	2.40	0.36
MAR 5,85	MAR 3,85	61.0	7.4	*****	4.78	*****	0.0379	1.00	0.35
MAR 7,85	MAR 6,85	55.0	U 73.0	*****	5.49	*****	0.0221	0.85	0.09
MAR 13,85	MAR 12,85	85.0	7.6	*****	4.91	*****	0.0478	UG 10.40	U 3.89
MAR 16,85	MAR 15,85	235.0	12.6	*****	5.10	*****	0.0253	0.25	0.29
MAR 26,85	MAR 25,85	226.0	3.1	*****	5.24	*****	0.0264	1.50	0.51
MAR 27,85	MAR 26,85	140.0	41.4	*****	5.86	*****	0.0183	0.20	0.10
MAR 29,85	MAR 28,85	105.0	LG 2.3	*****	UG 6.72	*****	0.0227	7.55	1.31
APR 2,85	APR 1,85	161.0	11.6	*****	UG 6.39	*****	0.0171	0.20	<W 0.01
APR 3,85	APR 2,85	*****	*****	*****	4.81	*****	0.0374	1.40	0.25
APR 13,85	APR 12,85	106.0	6.9	*****	*****	*****	*****	*****	*****
APR 20,85	APR 19,85	75.0	UG 58.5	*****	5.19	*****	0.0291	0.85	0.08
APR 22,85	APR 21,85	509.0	16.4	*****	U 7.71	*****	LG 0.0073	4.70	1.15
APR 23,85	APR 22,85	422.0	D 23.1	*****	UG 7.31	*****	0.0143	1.55	0.36
APR 24,85	APR 23,85	660.0	10.3	*****	4.64	*****	0.0467	D 3.10	0.46
APR 25,85	APR 24,85	229.0	4.7	*****	4.94	*****	0.0282	1.05	0.20
MAY 4,85	MAY 3,85	1429.0	8.8	*****	5.19	*****	0.0212	0.35	<T 0.03
MAY 5,85	MAY 4,85	863.0	14.5	*****	6.32	*****	0.0166	2.25	0.47
MAY 6,85	MAY 5,85	661.0	4.2	*****	UG 6.58	*****	0.0175	2.50	0.49
MAY 7,85	MAY 6,85	190.0	3.3	*****	5.37	*****	0.0198	0.35	0.06
MAY 11,85	MAY 10,85	167.0	23.1	*****	5.70	*****	0.0177	0.30	<T 0.04
MAY 12,85	MAY 11,85	207.0	14.1	*****	4.52	*****	0.0543	3.00	0.49
MAY 13,85	MAY 12,85	64.0	7.7	*****	4.83	*****	0.0350	1.85	0.31
MAY 14,85	MAY 13,85	54.0	UG 43.1	*****	4.95	*****	0.0299	0.80	0.10
MAY 15,85	MAY 14,85	36.0	UG 38.5	*****	4.20	*****	UG 0.0918	3.80	UG 1.35
MAY 16,85	MAY 15,85	487.0	28.5	*****	4.15	*****	UG 0.0976	D 4.15	0.53
MAY 18,85	MAY 17,85	6.0	*****	*****	4.26	*****	UG 0.0760	2.60	0.44
					*****	*****	*****	*****	*****

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ONTARIO MINISTRY OF THE ENVIRONMENT
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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 8,85	JAN 7,85	0.08	<T 0.04	<T 0.005	<W 0.005	<T 0.015	<W 0.005	0.0032
JAN 14,85	JAN 13,85	*****	*****	*****	*****	*****	*****	*****
JAN 15,85	JAN 14,85	*****	*****	*****	*****	*****	*****	*****
JAN 17,85	JAN 16,85	*****	*****	*****	*****	*****	*****	0.0029
JAN 25,85	JAN 24,85	*****	*****	*****	*****	*****	*****	*****
FEB 5,85	FEB 4,85	*****	*****	*****	*****	*****	*****	*****
FEB 6,85	FEB 5,85	*****	*****	*****	*****	*****	<W 0.005	0.0234
FEB 10,85	FEB 9,85	0.15	0.15	0.025	<T 0.015	0.070	<W 0.005	0.0324
FEB 16,85	FEB 15,85	0.28	0.13	0.030	0.030	0.095	<W 0.005	0.0200
FEB 17,85	FEB 16,85	*****	*****	*****	*****	*****	*****	*****
FEB 19,85	FEB 18,85	0.45	0.18	0.060	0.045	0.135	<W 0.005	0.0100
FEB 23,85	FEB 22,85	*****	0.74	*****	*****	*****	*****	0.0525
FEB 25,85	FEB 24,85	0.49	0.25	0.065	<T 0.020	0.230	0.560	0.0076
FEB 26,85	FEB 25,85	0.19	0.09	0.030	<W 0.005	0.030	0.290	0.0166
MAR 5,85	MAR 3,85	0.97	0.32	0.135	0.030	UG 0.420	*****	0.0032
MAR 7,85	MAR 6,85	*****	UG 1.06	*****	*****	*****	2.400	0.0123
MAR 13,85	MAR 12,85	0.26	<T 0.06	0.040	<W 0.005	0.040	0.085	0.0079
MAR 16,85	MAR 15,85	0.40	0.17	0.075	0.040	0.195	0.445	0.0058
MAR 26,85	MAR 25,85	0.16	0.10	0.020	0.005	0.030	0.005	0.0014
MAR 27,85	MAR 26,85	1.38	0.30	0.155	0.140	0.290	2.950	LG 0.0002
MAR 29,85	MAR 28,85	0.21	0.09	0.030	<T 0.005	0.045	<W 0.005	LG 0.0004
APR 2,85	APR 1,85	0.29	0.10	0.040	<T 0.005	0.040	0.220	0.0155
APR 3,85	APR 2,85	*****	*****	*****	*****	*****	*****	*****
APR 13,85	APR 12,85	0.34	D 0.07	0.035	<T 0.005	0.030	<W 0.005	0.0065
APR 20,85	APR 19,85	U 6.60	0.49	U 0.625	0.205	UG 0.445	2.300	U 0.0000
APR 22,85	APR 21,85	1.20	0.12	0.190	<T 0.020	<T 0.020	1.050	LG 0.0000
APR 23,85	APR 22,85	D 0.41	0.15	0.080	0.060	0.110	0.680	0.0229
APR 24,85	APR 23,85	0.10	<T 0.04	<T 0.015	<T 0.015	<T 0.015	0.260	0.0115
APR 25,85	APR 24,85	<T 0.03	<T 0.03	<T 0.005	<T 0.015	0.070	0.035	0.0065
MAY 4,85	MAY 3,85	0.53	0.09	0.090	0.055	0.055	0.710	0.0005
MAY 5,85	MAY 4,85	0.87	0.07	0.140	0.065	0.045	0.790	LG 0.0003
MAY 6,85	MAY 5,85	0.13	<T 0.03	0.020	<T 0.010	0.035	0.070	0.0043
MAY 7,85	MAY 6,85	0.13	<W 0.01	0.025	0.040	<T 0.015	<W 0.005	0.0020
MAY 11,85	MAY 10,85	0.52	<T 0.05	0.090	0.055	0.075	0.500	0.0302
MAY 12,85	MAY 11,85	0.32	<W 0.01	0.030	0.050	0.055	0.410	0.0148
MAY 13,85	MAY 12,85	0.11	<W 0.01	0.025	0.080	0.055	0.115	0.0112
MAY 14,85	MAY 13,85	UG 1.49	0.34	0.305	0.180	0.180	0.450	0.0631
MAY 15,85	MAY 14,85	*****	0.10	*****	*****	*****	0.475	0.0708
MAY 16,85	MAY 15,85	0.22	<T 0.05	0.035	0.035	0.030	0.225	0.0550
MAY 18,85	MAY 17,85	*****	*****	*****	*****	*****	*****	*****

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
MAY 19,85	MAY 18,85	800 800	**** ****	1	2.4	1	34854	2	1	81	C C
MAY 26,85	MAY 25,85	800 800	**** ****	1	2.8	1	34856	2	1	90	C HM
MAY 29,85	MAY 28,85	800 800	**** ****	1	1.6	1	34858	2	1	213	N
MAY 31,85	MAY 29,85	800 800	**** ****	1	22.4	1	34860	2	1	89	Z
JUN 1,85	MAY 31,85	800 800	**** ****	1	30.8	1	34862	2	1	98	HCM
JUN 2,85	JUN 1,85	800 800	**** ****	1	2.3	1	34864	2	1	96	C HM
JUN 5,85	JUN 4,85	800 800	**** ****	1	1.8	1	34866	2	1	78	C
JUN 7,85	JUN 6,85	800 800	**** ****	1	6.3	1	34868	2	1	101	C
JUN 9,85	JUN 8,85	800 800	**** ****	1	2.8	1	34870	2	1	90	C H
JUN 17,85	JUN 16,85	800 800	**** ****	1	6.0	1	34905	2	1	****	G
JUN 18,85	JUN 17,85	800 800	**** ****	1	3.9	1	34873	2	1	91	C C
JUN 19,85	JUN 18,85	800 800	**** ****	1	0.8	1	34875	2	1	60	
JUN 21,85	JUN 20,85	800 800	**** ****	1	2.8	1	34877	2	1	139	C N
JUN 22,85	JUN 21,85	800 800	**** ****	1	53.6	1	34879	2	1	105	HM
JUN 23,85	JUN 22,85	800 800	**** ****	1	4.2	1	34881	2	1	91	C HM
JUN 26,85	JUN 25,85	800 800	**** ****	1	13.2	1	34883	2	1	101	C HM
JUN 27,85	JUN 26,85	800 800	**** ****	1	13.0	1	34885	2	1	99	
JUN 28,85	JUN 27,85	800 800	**** ****	1	1.0	1	34887	2	1	67	
JUL 2,85	JUL 1,85	800 800	**** ****	1	12.8	1	34890	2	1	U 63	CIF HM
JUL 3,85	JUL 2,85	800 800	**** ****	1	16.0	1	34892	2	1	95	M
JUL 4,85	JUL 3,85	800 800	**** ****	1	5.0	1	34896	2	1	96	C HM
JUL 5,85	JUL 4,85	800 800	**** ****	1	3.4	1	34912	2	1	90	N HCM
JUL 7,85	JUL 6,85	800 800	**** ****	1	12.6	1	34914	2	1	94	HCM
JUL 8,85	JUL 7,85	800 800	**** ****	1	0.8	1	34916	2	1	74	
JUL 10,85	JUL 9,85	800 800	**** ****	1	1.6	1	34918	2	1	80	HM
JUL 12,85	JUL 11,85	800 800	**** ****	1	1.0	1	34920	2	1	85	
JUL 14,85	JUL 13,85	800 800	**** ****	1	27.4	1	34922	2	1	105	H
JUL 15,85	JUL 14,85	800 800	**** ****	1	2.0	1	34926	2	1	60	C HCM
JUL 16,85	JUL 15,85	800 800	**** ****	1	5.8	1	34928	2	1	102	HM
JUL 18,85	JUL 17,85	800 800	**** ****	1	5.0	1	34930	2	1	96	C M
JUL 19,85	JUL 18,85	800 800	**** ****	1	3.4	1	34932	2	1	85	
JUL 23,85	JUL 22,85	800 800	**** ****	1	1.6	1	34934	2	1	70	HCM
JUL 24,85	JUL 23,85	800 800	**** ****	1	4.6	1	34936	2	1	99	C HM
JUL 25,85	JUL 24,85	800 800	**** ****	1	14.6	1	34945	2	1	101	H
JUL 28,85	JUL 27,85	800 800	**** ****	1	1.0	1	34947	2	1	31	N
JUL 29,85	JUL 28,85	800 800	**** ****	1	0.8	1	34949	2	1	173	NHCHM
AUG 5,85	AUG 4,85	800 800	**** ****	1	3.2	1	34952	2	1	94	
AUG 6,85	AUG 5,85	800 800	**** ****	1	25.0	1	34954	2	1	100	C
AUG 7,85	AUG 6,85	800 800	**** ****	1	1.2	1	34962	2	1	66	C
AUG 10,85	AUG 9,85	800 800	**** ****	1	17.8	1	34964	2	1	79	H

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 19,85	MAY 18,85	126.0	6.4	*****	6.00	*****	0.0139	0.35	0.10
MAY 26,85	MAY 25,85	163.0	6.1	*****	5.03	*****	0.0231	0.65	0.11
MAY 29,85	MAY 28,85	219.0	18.7	*****	4.53	*****	0.0560	2.05	0.26
MAY 31,85	MAY 29,85	1284.0	13.5	*****	4.69	*****	0.0465	1.50	0.13
JUN 1,85	MAY 31,85	1947.0	3.0	*****	5.57	*****	0.0196	LG 0.15	<W 0.01
JUN 2,85	JUN 1,85	142.0	8.6	*****	5.14	*****	0.0294	1.00	0.20
JUN 5,85	JUN 4,85	90.0	17.2	*****	4.59	*****	0.0486	1.75	0.30
JUN 7,85	JUN 6,85	409.0	12.5	*****	UG 7.07	*****	0.0146	1.65	0.48
JUN 9,85	JUN 8,85	163.0	4.1	*****	6.14	*****	0.0165	0.55	0.21
JUN 17,85	JUN 16,85	*****	*****	*****	*****	*****	*****	*****	*****
JUN 18,85	JUN 17,85	229.0	3.6	*****	6.06	*****	0.0147	0.40	<W 0.01
JUN 19,85	JUN 18,85	31.0	3.6	*****	6.08	*****	0.0172	0.55	<W 0.01
JUN 21,85	JUN 20,85	251.0	11.2	*****	UG 7.23	*****	0.0139	1.25	0.47
JUN 22,85	JUN 21,85	3628.0	3.8	*****	5.54	*****	0.0187	0.60	0.08
JUN 23,85	JUN 22,85	247.0	4.4	*****	5.64	*****	0.0213	0.45	0.07
JUN 26,85	JUN 25,85	860.0	6.0	*****	4.96	*****	0.0272	0.50	0.11
JUN 27,85	JUN 26,85	831.0	12.2	*****	4.72	*****	0.0406	1.20	0.24
JUN 28,85	JUN 27,85	43.0	UG 75.3	*****	LG 3.88	*****	UG 0.1750	UG 7.50	UG 1.78
JUL 2,85	JUL 1,85	521.0	10.4	*****	5.15	*****	0.0259	1.10	0.17
JUL 3,85	JUL 2,85	976.0	8.8	*****	4.77	*****	0.0368	0.75	<W 0.01
JUL 4,85	JUL 3,85	310.0	8.2	*****	5.08	*****	0.0291	0.60	0.24
JUL 5,85	JUL 4,85	198.0	7.6	*****	5.02	*****	0.0343	0.40	0.09
JUL 7,85	JUL 6,85	760.0	8.0	*****	5.21	*****	0.0251	0.65	0.17
JUL 8,85	JUL 7,85	38.0	5.8	*****	UG 6.46	*****	0.0172	0.60	<T 0.04
JUL 10,85	JUL 9,85	83.0	9.0	*****	4.84	*****	0.0383	0.85	0.08
JUL 12,85	JUL 11,85	55.0	5.8	*****	UG 6.50	*****	0.0167	UG 5.50	*****
JUL 14,85	JUL 13,85	1858.0	8.6	*****	5.48	*****	0.0255	1.05	0.20
JUL 15,85	JUL 14,85	78.0	6.1	*****	5.37	*****	0.0256	0.35	0.11
JUL 16,85	JUL 15,85	382.0	LG 2.5	*****	5.35	*****	0.0269	<T 0.15	<W 0.01
JUL 18,85	JUL 17,85	309.0	7.5	*****	4.89	*****	0.0326	0.65	0.09
JUL 19,85	JUL 18,85	186.0	10.6	*****	4.83	*****	0.0353	1.15	0.13
JUL 23,85	JUL 22,85	72.0	9.0	*****	5.29	*****	0.0278	0.60	0.23
JUL 24,85	JUL 23,85	293.0	12.1	*****	5.40	*****	0.0295	1.45	0.45
JUL 25,85	JUL 24,85	954.0	9.1	*****	4.87	*****	0.0350	1.10	0.13
JUL 28,85	JUL 27,85	20.0	*****	*****	4.59	*****	0.0621	*****	*****
JUL 29,85	JUL 28,85	89.0	4.0	*****	5.17	*****	0.0279	<W 0.05	<T 0.02
AUG 5,85	AUG 4,85	193.0	UG 64.8	*****	LG 3.92	*****	UG 0.1760	UG 7.35	0.57
AUG 6,85	AUG 5,85	1603.0	6.7	*****	5.03	*****	0.0271	0.50	<T 0.03
AUG 7,85	AUG 6,85	51.0	10.1	*****	4.70	*****	0.0460	*****	*****
AUG 10,85	AUG 9,85	907.0	7.0	*****	5.11	*****	0.0306	0.80	0.21

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAY 19,85	MAY 18,85	0.28	<W 0.01	0.045	0.030	0.045	0.035	0.0010
MAY 26,85	MAY 25,85	0.33	<T 0.05	0.050	0.020	0.060	<T 0.010	0.0093
MAY 29,85	MAY 28,85	0.24	<T 0.03	0.030	0.030	0.045	0.220	0.0295
MAY 31,85	MAY 29,85	0.12	<W 0.01	<T 0.015	<T 0.015	<T 0.020	0.195	0.0204
JUN 1,85	MAY 31,85	0.10	<T 0.02	<T 0.010	0.025	0.040	<W 0.005	0.0027
JUN 2,85	JUN 1,85	0.28	<T 0.02	0.045	0.090	0.050	0.220	0.0072
JUN 5,85	JUN 4,85	0.44	0.07	0.060	0.060	0.110	0.085	0.0257
JUN 7,85	JUN 6,85	1.28	0.09	0.220	0.045	<T 0.015	0.735	LG 0.0001
JUN 9,85	JUN 8,85	0.27	0.07	0.030	0.040	0.030	0.140	0.0007
JUN 17,85	JUN 16,85	*****	*****	*****	*****	*****	*****	*****
JUN 18,85	JUN 17,85	0.09	<T 0.03	0.020	0.040	0.125	<W 0.005	0.0009
JUN 19,85	JUN 18,85	*****	<T 0.05	*****	*****	*****	*****	0.0008
JUN 21,85	JUN 20,85	1.12	0.10	0.135	0.050	0.030	0.690	LG 0.0001
JUN 22,85	JUN 21,85	0.27	<T 0.03	0.020	0.030	<T 0.010	0.155	0.0029
JUN 23,85	JUN 22,85	0.18	<T 0.05	0.030	0.050	0.045	0.120	0.0023
JUN 26,85	JUN 25,85	0.14	0.08	0.020	0.025	0.040	0.070	0.0110
JUN 27,85	JUN 26,85	0.26	0.13	0.040	0.040	0.090	0.160	0.0191
JUN 28,85	JUN 27,85	*****	UG 0.50	*****	*****	*****	*****	UG 0.1318
JUL 2,85	JUL 1,85	0.28	0.07	0.035	0.050	0.050	0.290	0.0071
JUL 3,85	JUL 2,85	0.09	0.07	<T 0.010	<W 0.005	<W 0.005	0.040	0.0170
JUL 4,85	JUL 3,85	0.11	<T 0.06	<T 0.010	<T 0.010	<T 0.020	0.140	0.0083
JUL 5,85	JUL 4,85	0.27	<T 0.05	0.035	<T 0.020	0.055	<T 0.010	0.0095
JUL 7,85	JUL 6,85	0.21	<T 0.05	0.030	0.030	0.030	0.190	0.0062
JUL 8,85	JUL 7,85	*****	0.11	*****	*****	*****	<W 0.005	LG 0.0003
JUL 10,85	JUL 9,85	0.36	0.07	0.070	0.040	0.050	<W 0.005	0.0145
JUL 12,85	JUL 11,85	0.76	0.10	0.215	0.050	0.080	0.115	LG 0.0003
JUL 14,85	JUL 13,85	0.27	<T 0.03	0.050	0.055	<T 0.015	0.325	0.0033
JUL 15,85	JUL 14,85	0.26	0.09	0.040	0.055	0.040	0.115	0.0043
JUL 16,85	JUL 15,85	0.09	<T 0.03	<T 0.010	<T 0.020	<T 0.010	<W 0.005	0.0045
JUL 18,85	JUL 17,85	0.12	<W 0.01	<T 0.010	0.020	<W 0.005	0.085	0.0129
JUL 19,85	JUL 18,85	0.17	<T 0.02	<T 0.010	0.030	0.025	0.180	0.0148
JUL 23,85	JUL 22,85	0.60	0.08	0.070	0.110	0.075	<W 0.005	0.0051
JUL 24,85	JUL 23,85	0.63	<T 0.05	0.110	0.065	<T 0.020	0.495	0.0040
JUL 25,85	JUL 24,85	0.21	<T 0.03	0.025	<W 0.005	<T 0.010	0.200	0.0135
JUL 28,85	JUL 27,85	*****	*****	*****	*****	*****	*****	0.0257
JUL 29,85	JUL 28,85	0.05	<T 0.04	<T 0.005	<T 0.005	<T 0.015	<W 0.005	0.0068
AUG 5,85	AUG 4,85	0.20	0.13	0.030	0.040	0.075	0.610	UG 0.1202
AUG 6,85	AUG 5,85	<T 0.02	<T 0.03	<T 0.005	<W 0.005	<T 0.010	0.060	0.0093
AUG 7,85	AUG 6,85	*****	*****	*****	*****	*****	<W 0.005	0.0200
AUG 10,85	AUG 9,85	0.21	<W 0.01	0.020	0.035	0.035	0.210	0.0078

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE	
AUG 11,85	AUG 10,85	800 800	****	****	1	3.0	1	34968	2	1	80	HM
AUG 13,85	AUG 12,85	800 800	****	****	1	26.8	1	34970	2	1	94	
AUG 18,85	AUG 17,85	800 800	****	****	1	10.0	1	34976	2	1	95	
AUG 19,85	AUG 18,85	800 800	****	****	1	1.4	1	34978	2	1	51	
AUG 24,85	AUG 23,85	800 800	****	****	1	0.1	1	34985	2	1	****	EK
AUG 29,85	AUG 28,85	1014 1014	****	****	1	1.7	1	34987	2	1	71	C
SEP 1,85	AUG 31,85	800 800	****	****	1	4.1	1	34989	2	1	92	CD
SEP 3,85	SEP 2,85	800 800	****	****	1	18.2	1	34991	2	1	103	
SEP 4,85	SEP 3,85	800 800	****	****	1	0.1	1	34995	2	1	****	EK
SEP 5,85	SEP 4,85	800 800	****	****	1	1.2	1	34997	2	1	68	M
SEP 6,85	SEP 5,85	800 800	****	****	1	1.6	1	34999	2	1	77	D
SEP 17,85	SEP 16,85	800 800	****	****	1	47.0	1	31330	2	1	100	
SEP 18,85	SEP 17,85	800 800	****	****	1	4.8	1	31332	2	1	93	CD
SEP 19,85	SEP 18,85	800 800	****	****	1	6.4	1	31334	2	1	99	
SEP 20,85	SEP 19,85	800 800	****	****	1	6.2	1	31336	2	1	103	
SEP 21,85	SEP 20,85	800 800	****	****	1	0.1	1	31338	2	1	****	EK
SEP 22,85	SEP 21,85	800 800	****	****	1	0.1	1	31340	2	1	****	EK
SEP 24,85	SEP 23,85	900 900	****	****	1	46.6	1	31342	2	1	96	C
SEP 29,85	SEP 28,85	900 900	****	****	3	0.1	1	31344	2	1	****	KE
SEP 30,85	SEP 29,85	900 900	****	****	1	8.2	1	31346	2	1	87	HCM
OCT 1,85	SEP 30,85	900 900	****	****	3	****	1	31348	2	1	****	CFJ
OCT 5,85	OCT 4,85	900 900	****	****	1	5.8	1	31350	2	1	82	C
OCT 8,85	OCT 7,85	900 900	****	****	1	16.2	1	31352	2	1	91	C
OCT 12,85	OCT 11,85	900 900	****	****	1	2.6	1	31354	2	1	70	CD
OCT 13,85	OCT 12,85	900 900	****	****	1	10.4	1	31356	2	1	93	HCM
OCT 18,85	OCT 17,85	900 900	****	****	1	1.4	1	31358	2	1	62	C
OCT 24,85	OCT 23,85	900 900	****	****	1	3.2	1	31360	2	1	82	CDQ
OCT 30,85	OCT 29,85	900 900	****	****	1	4.0	1	31362	2	1	85	C
NOV 1,85	OCT 31,85	900 900	****	****	1	7.8	1	31364	2	1	89	C
NOV 2,85	NOV 1,85	900 900	****	****	1	15.6	1	31366	2	1	98	C
NOV 6,85	NOV 5,85	900 900	****	****	3	3.2	1	31368	2	1	214	C
NOV 12,85	NOV 11,85	900 900	****	****	2	3.0	2	31370	2	1	****	K
NOV 17,85	NOV 16,85	900 900	****	****	2	5.0	2	31373	2	1	106	HCM
NOV 21,85	NOV 19,85	900 900	****	****	2	28.0	2	31375	2	1	54	HMZ
NOV 23,85	NOV 22,85	900 900	****	****	2	10.6	2	31377	2	1	****	EK
NOV 25,85	NOV 24,85	900 900	****	****	2	6.4	2	31379	2	1	****	EK
NOV 29,85	NOV 28,85	900 900	****	****	2	7.0	2	31382	2	1	****	EK
DEC 5,85	DEC 4,85	900 900	****	****	2	1.4	2	31383	2	1	73	C
DEC 23,85	DEC 22,85	900 900	****	****	2	8.0	2	31385	2	1	58	C

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
AUG 11,85	AUG 10,85	154.0	2.6	*****	5.30	*****	0.0206	LG 0.15	<T 0.05
AUG 13,85	AUG 12,85	1615.0	10.7	*****	4.67	*****	0.0420	1.00	0.14
AUG 18,85	AUG 17,85	610.0	22.1	*****	4.47	*****	0.0647	2.05	0.41
AUG 19,85	AUG 18,85	46.0	1.9	*****	5.45	*****	0.0212	<T 0.05	<W 0.01
AUG 24,85	AUG 23,85	*****	*****	*****	*****	*****	*****	*****	*****
AUG 29,85	AUG 28,85	78.0	12.9	*****	4.66	*****	0.0431	1.00	0.26
SEP 1,85	AUG 31,85	244.0	12.0	*****	5.21	*****	0.0294	1.00	0.50
SEP 3,85	SEP 2,85	1203.0	7.2	*****	5.10	*****	0.0258	0.85	0.18
SEP 4,85	SEP 3,85	*****	*****	*****	*****	*****	*****	*****	*****
SEP 5,85	SEP 4,85	53.0	8.3	*****	UG 7.04	*****	0.0150	1.40	0.15
SEP 6,85	SEP 5,85	79.0	12.3	*****	6.08	*****	0.0189	1.80	0.51
SEP 17,85	SEP 16,85	3015.0	8.4	*****	4.93	*****	0.0298	1.10	0.08
SEP 18,85	SEP 17,85	288.0	11.1	*****	UG 6.54	*****	0.0184	2.15	0.24
SEP 19,85	SEP 18,85	407.0	23.0	*****	UG 6.50	*****	0.0195	3.50	0.55
SEP 20,85	SEP 19,85	412.0	12.7	*****	UG 7.16	*****	0.0151	1.25	0.31
SEP 21,85	SEP 20,85	*****	*****	*****	*****	*****	*****	*****	*****
SEP 22,85	SEP 21,85	*****	*****	*****	*****	*****	*****	*****	*****
SEP 24,85	SEP 23,85	2894.0	3.5	*****	UG 6.58	*****	0.0169	0.25	<T 0.03
SEP 29,85	SEP 28,85	*****	*****	*****	*****	*****	*****	*****	*****
SEP 30,85	SEP 29,85	460.0	5.2	*****	UG 7.06	*****	0.0175	<T 0.15	0.10
OCT 1,85	SEP 30,85	2045.0	4.0	*****	UG 7.02	*****	0.0153	0.30	<T 0.05
OCT 5,85	OCT 4,85	305.0	7.3	*****	5.45	*****	0.0225	1.25	0.15
OCT 8,85	OCT 7,85	947.0	6.6	*****	5.37	*****	0.0215	0.85	0.18
OCT 12,85	OCT 11,85	117.0	7.2	*****	UG 7.13	*****	0.0143	0.95	0.14
OCT 13,85	OCT 12,85	623.0	7.0	*****	UG 6.88	*****	0.0180	0.90	0.13
OCT 18,85	OCT 17,85	56.0	11.7	*****	UG 6.35	*****	0.0183	2.20	0.31
OCT 24,85	OCT 23,85	169.0	28.8	*****	4.43	*****	0.0636	UG 4.75	0.61
OCT 30,85	OCT 29,85	218.0	6.9	*****	5.59	*****	0.0223	0.90	0.12
NOV 1,85	OCT 31,85	446.0	5.2	*****	5.78	*****	0.0209	0.60	0.10
NOV 2,85	NOV 1,85	982.0	5.9	*****	UG 6.58	*****	0.0166	0.65	0.10
NOV 6,85	NOV 5,85	440.0	8.2	*****	UG 6.48	*****	0.0184	0.80	0.35
NOV 12,85	NOV 11,85	*****	*****	*****	*****	*****	*****	*****	*****
NOV 17,85	NOV 16,85	341.0	3.9	*****	UG 6.56	*****	0.0160	0.45	<T 0.04
NOV 21,85	NOV 19,85	987.0	4.4	*****	5.58	*****	0.0220	0.35	0.13
NOV 23,85	NOV 22,85	*****	*****	*****	*****	*****	*****	*****	*****
NOV 25,85	NOV 24,85	*****	*****	*****	*****	*****	*****	*****	*****
NOV 29,85	NOV 28,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 5,85	DEC 4,85	66.0	11.6	*****	5.21	*****	0.0255	0.70	0.62
DEC 23,85	DEC 22,85	302.0	6.1	*****	5.88	*****	0.0181	0.40	0.20

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY/AEROCHEM

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
AUG 11,85	AUG 10,85	0.09	<W 0.01	<T 0.005	<T 0.010	0.035	<W 0.005	0.0050
AUG 13,85	AUG 12,85	0.12	<W 0.01	<T 0.005	<T 0.015	0.020	0.090	0.0214
AUG 18,85	AUG 17,85	0.25	0.08	0.055	0.045	0.105	0.240	0.0339
AUG 19,85	AUG 18,85	*****	<T 0.01	*****	*****	*****	<W 0.005	0.0035
AUG 24,85	AUG 23,85	*****	*****	*****	*****	*****	*****	*****
AUG 29,85	AUG 28,85	0.23	0.12	0.035	0.055	0.055	0.080	0.0219
SEP 1,85	AUG 31,85	0.53	0.17	0.055	0.060	0.045	0.245	0.0062
SEP 3,85	SEP 2,85	0.21	<T 0.05	<T 0.015	<T 0.015	<T 0.010	0.170	0.0079
SEP 4,85	SEP 3,85	*****	*****	*****	*****	*****	*****	*****
SEP 5,85	SEP 4,85	1.29	0.07	0.045	0.040	0.050	<W 0.005	LG 0.0001
SEP 6,85	SEP 5,85	1.28	0.11	0.040	0.040	0.065	0.235	0.0008
SEP 17,85	SEP 16,85	0.18	<T 0.03	<T 0.010	<T 0.020	<T 0.010	0.180	0.0117
SEP 18,85	SEP 17,85	0.41	<T 0.06	0.030	0.030	0.040	0.690	LG 0.0003
SEP 19,85	SEP 18,85	1.00	0.12	0.065	0.075	0.110	0.990	LG 0.0003
SEP 20,85	SEP 19,85	UG 1.54	0.14	0.080	0.055	0.140	0.225	LG 0.0001
SEP 21,85	SEP 20,85	*****	*****	*****	*****	*****	*****	*****
SEP 22,85	SEP 21,85	*****	*****	*****	*****	*****	*****	*****
SEP 24,85	SEP 23,85	0.41	<T 0.04	0.055	0.085	<T 0.015	<W 0.005	LG 0.0003
SEP 29,85	SEP 28,85	*****	*****	*****	*****	*****	*****	*****
SEP 30,85	SEP 29,85	0.40	<W 0.01	<T 0.015	0.060	0.030	LG 0.015	LG 0.0001
OCT 1,85	SEP 30,85	0.43	<W 0.01	<T 0.005	<T 0.010	<T 0.015	<W 0.005	LG 0.0001
OCT 5,85	OCT 4,85	0.52	<W 0.01	0.015	<T 0.020	0.020	0.135	0.0035
OCT 8,85	OCT 7,85	0.40	<W 0.01	<T 0.010	<T 0.015	<T 0.015	0.095	0.0043
OCT 12,85	OCT 11,85	0.88	<T 0.02	0.025	0.045	0.055	<W 0.005	LG 0.0001
OCT 13,85	OCT 12,85	0.48	<W 0.01	<T 0.010	0.020	0.045	0.050	LG 0.0001
OCT 18,85	OCT 17,85	0.75	<T 0.02	0.060	0.060	0.115	0.285	LG 0.0004
OCT 24,85	OCT 23,85	1.09	<T 0.04	0.060	0.035	0.050	0.930	0.0372
OCT 30,85	OCT 29,85	0.25	<W 0.01	0.025	<T 0.010	0.045	0.125	0.0026
NOV 1,85	OCT 31,85	0.26	<T 0.02	<T 0.015	<T 0.020	0.030	0.065	0.0017
NOV 2,85	NOV 1,85	0.39	<T 0.02	<T 0.010	<T 0.020	0.025	<W 0.005	LG 0.0003
NOV 6,85	NOV 5,85	0.35	<T 0.02	0.020	<T 0.015	<T 0.010	0.370	LG 0.0003
NOV 12,85	NOV 11,85	*****	*****	*****	*****	*****	*****	*****
NOV 17,85	NOV 16,85	0.32	<T 0.02	0.020	<T 0.005	0.025	<T 0.005	LG 0.0003
NOV 21,85	NOV 19,85	0.36	<T 0.03	<T 0.010	<T 0.010	<T 0.010	0.035	0.0026
NOV 23,85	NOV 22,85	*****	*****	*****	*****	*****	*****	*****
NOV 25,85	NOV 24,85	*****	*****	*****	*****	*****	*****	*****
NOV 29,85	NOV 28,85	*****	*****	*****	*****	*****	*****	*****
DEC 5,85	DEC 4,85	0.90	0.08	0.025	0.030	0.050	0.030	0.0062
DEC 23,85	DEC 22,85	0.34	<T 0.06	<T 0.005	<T 0.010	0.030	0.025	0.0013

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JAN 2,85	DEC 30,84	900 900	**** ****	2	0.4	2	33379	2	1	****	EK Z
JAN 7,85	JAN 6,85	900 900	1900 900	2	8.2	2	33380	2	1	77	CD
JAN 14,85	JAN 13,85	900 900	1100 1400	2	5.8	2	33382	2	1	50	CD
JAN 17,85	JAN 16,85	900 900	**** 900	2	1.0	2	33383	2	1	****	EK
JAN 21,85	JAN 20,85	900 900	1300 2000	2	3.4	2	33384	2	1	U 15	M
JAN 23,85	JAN 22,85	900 900	1100 1330	2	0.6	2	33385	2	1	****	E
JAN 25,85	JAN 24,85	900 900	1100 1500	2	1.2	2	33386	2	1	****	EM
JAN 28,85	JAN 26,85	1600 1130	**** 1000	2	4.2	2	33387	2	1	U 30	MF Z
JAN 29,85	JAN 28,85	1130 800	2000 ****	2	0.8	2	33388	2	1	U 87	CFJ
FEB 6,85	FEB 5,85	900 900	**** 900	2	0.6	2	33391	2	1	59	
FEB 7,85	FEB 6,85	900 900	900 1030	2	0.4	2	33392	2	1	****	EK
FEB 10,85	FEB 9,85	900 900	1800 800	2	6.6	2	33393	2	1	94	CD
FEB 18,85	FEB 17,85	900 900	1200 ****	2	3.4	2	33395	2	1	49	Q N
FEB 19,85	FEB 18,85	900 800	**** ****	2	0.6	2	33396	2	1	****	EK
FEB 20,85	FEB 19,85	800 900	800 1000	2	0.2	2	33397	2	1	****	EK
FEB 25,85	FEB 24,85	900 900	**** 1100	2	1.2	*	33398	2	1	94	C
FEB 26,85	FEB 25,85	900 900	1300 900	2	4.8	2	33399	2	1	67	
FEB 27,85	FEB 26,85	900 900	900 1030	2	0.2	2	33400	2	1	****	EK
MAR 4,85	MAR 3,85	900 900	**** 900	2	2.6	2	33401	2	1	****	EK
MAR 5,85	MAR 4,85	900 900	900 1800	2	11.0	2	33402	2	1	****	EK
MAR 7,85	MAR 6,85	900 900	1500 2100	2	2.2	2	33403	2	1	32	C N
MAR 13,85	MAR 12,85	900 900	**** ****	2	3.2	2	33405	2	1	50	
MAR 16,85	MAR 15,85	900 900	1900 2000	2	****	2	33406	2	1	****	C NH
MAR 27,85	MAR 26,85	900 900	1600 900	1	1.2	2	33408	2	1	130	CD NHM
MAR 28,85	MAR 27,85	900 900	900 1000	3	0.4	2	33409	2	1	****	EK
MAR 29,85	MAR 28,85	900 900	2100 ****	2	5.8	2	33410	2	1	U 11	G
APR 3,85	APR 2,85	900 900	1400 2000	3	2.0	2	33412	2	1	133	C N
APR 4,85	APR 3,85	900 900	900 1400	2	2.2	2	33413	2	1	19	N
APR 8,85	APR 7,85	900 900	1400 1700	2	0.4	2	33414	2	1	****	
APR 13,85	APR 12,85	900 900	2000 300	2	10.8	2	33417	2	1	U 93	FJ C
APR 22,85	APR 13,85	900 900	1200 300	1	9.0	2	33418	2	1	U 117	BF Z
APR 23,85	APR 22,85	900 1200	1800 1200	1	19.8	2	33420	2	1	U 104	F
APR 24,85	APR 23,85	1200 900	1200 900	1	11.8	2	33419	2	1	U 107	F
APR 25,85	APR 24,85	900 830	900 830	1	5.6	1	33421	2	1	U 111	FJ
APR 26,85	APR 25,85	830 830	830 2400	3	1.8	1	33422	2	1	U 78	FJ M
APR 30,85	APR 26,85	830 830	2300 100	1	1.5	1	33423	2	1	U 93	FJC Z
MAY 4,85	APR 30,85	830 1030	2300 600	1	18.0	1	33424	2	1	105	NZ
MAY 5,85	MAY 4,85	900 1030	2200 200	1	5.8	1	33425	2	1	88	C
MAY 6,85	MAY 5,85	900 900	2300 900	1	5.6	1	33426	2	1	96	C HCM
MAY 7,85	MAY 6,85	900 1300	900 1900	1	4.0	1	33429	2	1	82	C

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ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JAN 2,85	DEC 30,84	*****	*****	*****	*****	*****	*****	*****	*****
JAN 7,85	JAN 6,85	405.0	5.0	*****	5.04	*****	0.0251	0.40	0.08
JAN 14,85	JAN 13,85	187.0	6.0	*****	5.16	*****	0.0214	0.35	0.21
JAN 17,85	JAN 16,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 21,85	JAN 20,85	34.0	*****	*****	5.04	*****	0.0236	*****	*****
JAN 23,85	JAN 22,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 25,85	JAN 24,85	*****	*****	*****	*****	*****	*****	*****	*****
JAN 28,85	JAN 26,85	81.0	6.3	*****	5.18	*****	0.0231	0.30	0.28
JAN 29,85	JAN 28,85	45.0	*****	*****	4.39	*****	0.0618	*****	*****
FEB 6,85	FEB 5,85	23.0	*****	*****	4.47	*****	0.0589	*****	*****
FEB 7,85	FEB 6,85	*****	*****	*****	*****	*****	*****	*****	*****
FEB 10,85	FEB 9,85	399.0	15.2	*****	4.55	*****	0.0485	0.35	0.47
FEB 18,85	FEB 17,85	108.0	18.7	*****	4.52	*****	0.0608	1.10	0.48
FEB 19,85	FEB 18,85	*****	*****	*****	*****	*****	*****	*****	*****
FEB 20,85	FEB 19,85	*****	*****	*****	*****	*****	*****	*****	*****
FEB 25,85	FEB 24,85	73.0	18.0	*****	4.67	*****	0.0501	2.20	0.40
FEB 26,85	FEB 25,85	207.0	10.4	*****	5.40	*****	0.0237	1.50	0.32
FEB 27,85	FEB 26,85	*****	*****	*****	*****	*****	*****	*****	*****
MAR 4,85	MAR 3,85	*****	*****	*****	*****	*****	*****	*****	*****
MAR 5,85	MAR 4,85	*****	*****	*****	*****	*****	*****	*****	*****
MAR 7,85	MAR 6,85	46.0	*****	*****	4.68	*****	0.0494	*****	*****
MAR 13,85	MAR 12,85	103.0	4.5	*****	5.43	*****	0.0219	0.20	0.17
MAR 16,85	MAR 15,85	74.0	14.7	*****	5.85	*****	0.0214	1.85	0.63
MAR 27,85	MAR 26,85	100.0	UG 71.3	*****	5.64	*****	0.0337	UG 12.50	UG 2.88
MAR 28,85	MAR 27,85	*****	*****	*****	*****	*****	*****	*****	*****
MAR 29,85	MAR 28,85	42.0	*****	*****	5.40	*****	0.0203	*****	*****
APR 3,85	APR 2,85	171.0	7.4	*****	4.88	*****	0.0338	0.85	<T 0.05
APR 4,85	APR 3,85	28.0	*****	*****	4.17	*****	UG 0.0962	*****	*****
APR 8,85	APR 7,85	*****	*****	*****	*****	*****	*****	*****	*****
APR 13,85	APR 12,85	647.0	4.1	*****	5.44	*****	0.0211	0.35	0.08
APR 22,85	APR 13,85	675.0	16.1	*****	UG 7.14	*****	0.0197	2.00	0.41
APR 23,85	APR 22,85	1328.0	12.8	*****	4.77	*****	0.0390	1.65	0.24
APR 24,85	APR 23,85	811.0	12.3	*****	4.72	*****	0.0400	1.25	0.20
APR 25,85	APR 24,85	399.0	4.6	*****	5.13	*****	0.0258	0.30	0.06
APR 26,85	APR 25,85	90.0	3.8	*****	5.27	*****	0.0246	0.30	<T 0.04
APR 30,85	APR 26,85	90.0	17.2	*****	UG 7.00	*****	0.0196	2.00	0.65
MAY 4,85	APR 30,85	1213.0	15.2	*****	UG 6.96	*****	0.0178	1.95	0.60
MAY 5,85	MAY 4,85	330.0	17.2	*****	UG 7.01	*****	0.0201	2.75	0.55
MAY 6,85	MAY 5,85	346.0	3.8	*****	UG 6.50	*****	0.0192	0.50	0.07
MAY 7,85	MAY 6,85	212.0	5.2	*****	UG 6.74	*****	0.0198	0.75	0.08

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JAN 2,85	DEC 30,84	*****	*****	*****	*****	*****	*****	*****
JAN 7,85	JAN 6,85	0.10	<T 0.06	<T 0.005	<T 0.015	0.030	<W 0.005	0.0091
JAN 14,85	JAN 13,85	0.16	<T 0.04	0.020	<T 0.015	<T 0.010	0.030	0.0069
JAN 17,85	JAN 16,85	*****	*****	*****	*****	*****	*****	*****
JAN 21,85	JAN 20,85	*****	*****	*****	*****	*****	*****	0.0091
JAN 23,85	JAN 22,85	*****	*****	*****	*****	*****	*****	*****
JAN 25,85	JAN 24,85	*****	*****	*****	*****	*****	*****	*****
JAN 28,85	JAN 26,85	0.27	0.11	0.045	<T 0.015	0.050	<W 0.005	0.0066
JAN 29,85	JAN 28,85	*****	*****	*****	*****	*****	0.135	0.0407
FEB 6,85	FEB 5,85	*****	*****	*****	*****	*****	*****	0.0339
FEB 7,85	FEB 6,85	*****	*****	*****	*****	*****	*****	*****
FEB 10,85	FEB 9,85	<T 0.04	<T 0.05	<T 0.010	0.035	<T 0.020	0.045	0.0282
FEB 18,85	FEB 17,85	0.25	0.08	0.030	0.020	0.045	0.050	0.0302
FEB 19,85	FEB 18,85	*****	*****	*****	*****	*****	*****	*****
FEB 20,85	FEB 19,85	*****	*****	*****	*****	*****	*****	*****
FEB 25,85	FEB 24,85	0.43	0.07	0.095	0.045	0.090	0.390	0.0214
FEB 26,85	FEB 25,85	0.06	<T 0.03	<T 0.015	<T 0.020	0.030	0.650	0.0040
FEB 27,85	FEB 26,85	*****	*****	*****	*****	*****	*****	*****
MAR 4,85	MAR 3,85	*****	*****	*****	*****	*****	*****	*****
MAR 5,85	MAR 4,85	*****	*****	*****	*****	*****	*****	*****
MAR 7,85	MAR 6,85	UG 1.97	*****	0.165	0.150	0.315	1.000	0.0209
MAR 13,85	MAR 12,85	0.11	<T 0.06	<T 0.015	<T 0.020	<T 0.010	0.150	0.0037
MAR 16,85	MAR 15,85	0.57	0.26	0.100	0.080	0.205	0.730	0.0014
MAR 27,85	MAR 26,85	UG 2.17	0.39	UG 1.950	0.190	0.305	U 4.900	0.0023
MAR 28,85	MAR 27,85	*****	*****	*****	*****	*****	*****	*****
MAR 29,85	MAR 28,85	*****	*****	*****	*****	*****	*****	0.0040
APR 3,85	APR 2,85	0.11	<T 0.05	<T 0.015	<W 0.005	<T 0.010	0.040	0.0132
APR 4,85	APR 3,85	*****	*****	*****	*****	*****	*****	0.0676
APR 8,85	APR 7,85	*****	*****	*****	*****	*****	*****	*****
APR 13,85	APR 12,85	0.04	<T 0.05	<T 0.010	<W 0.005	<T 0.010	0.095	0.0036
APR 22,85	APR 13,85	1.08	0.21	0.120	0.160	0.170	0.950	LG 0.0001
APR 23,85	APR 22,85	0.09	0.09	<T 0.010	<T 0.010	<T 0.010	0.430	0.0170
APR 24,85	APR 23,85	<T 0.04	0.07	<T 0.010	<T 0.005	<T 0.005	0.295	0.0191
APR 25,85	APR 24,85	<T 0.03	0.09	<W 0.005	<T 0.010	<T 0.005	0.050	0.0074
APR 26,85	APR 25,85	0.08	<T 0.05	<T 0.010	0.090	<T 0.005	<W 0.005	0.0054
APR 30,85	APR 26,85	1.14	0.17	0.205	0.165	0.115	1.100	LG 0.0001
MAY 4,85	APR 30,85	0.80	0.14	0.100	0.035	<T 0.015	1.050	LG 0.0001
MAY 5,85	MAY 4,85	1.06	0.18	0.180	0.155	0.090	1.050	LG 0.0001
MAY 6,85	MAY 5,85	0.16	0.09	0.025	0.045	0.090	0.110	LG 0.0003
MAY 7,85	MAY 6,85	0.55	0.03	0.130	0.115	0.135	0.075	LG 0.0002

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
MAY 13,85	MAY 11,85	900 900	1000 1900	1	23.6	1	33430	2	1	55	Q HZ
MAY 15,85	MAY 14,85	900 800	915 800	1	2.0	1	31179	2	1	104	C
MAY 16,85	MAY 15,85	800 800	800 800	1	12.4	1	31180	2	1	99	C
MAY 17,85	MAY 16,85	1000 800	800 1000	1	0.4	1	31184	2	1	****	EK
MAY 19,85	MAY 17,85	800 1000	2200 2400	1	4.6	1	31182	2	1	93	C Z
MAY 21,85	MAY 19,85	1000 900	900 930	1	0.2	1	31183	2	1	****	EK Z
MAY 24,85	MAY 23,85	1000 900	**** 700	1	1.8	1	33433	2	1	101	
MAY 26,85	MAY 25,85	900 900	1100 1500	1	5.0	1	33434	2	1	97	C
MAY 30,85	MAY 29,85	800 800	1300 ****	1	10.0	1	33436	2	1	76	
MAY 31,85	MAY 30,85	800 800	1500 ****	1	6.2	1	33437	2	1	107	
JUN 2,85	JUN 1,85	800 800	2000 ****	1	1.8	1	33438	2	1	60	H
JUN 5,85	JUN 4,85	900 900	1500 ****	1	4.8	1	33439	2	1	93	
JUN 7,85	JUN 6,85	900 900	1630 ****	1	2.4	1	33440	2	1	92	C
JUN 9,85	JUN 8,85	900 900	1100 ****	1	5.1	1	33441	2	1	93	C C
JUN 13,85	JUN 12,85	900 800	2100 ****	1	1.4	1	33448	2	1	102	C HC
JUN 16,85	JUN 15,85	900 1000	1500 1630	1	8.1	1	33443	2	1	81	C
JUN 17,85	JUN 16,85	1000 800	1600 700	1	8.4	1	33444	2	1	95	
JUN 18,85	JUN 17,85	800 900	900 900	1	19.4	1	33445	2	1	96	C CM
JUN 19,85	JUN 18,85	900 900	900 1000	1	0.2	1	33449	2	1	****	EK
JUN 21,85	JUN 20,85	900 900	**** ****	1	19.2	1	33450	2	1	65	C
JUN 22,85	JUN 21,85	900 900	2300 ****	1	32.8	1	33452	2	1	90	
JUN 23,85	JUN 22,85	900 900	2300 ****	1	1.4	1	33453	2	1	52	C
JUN 24,85	JUN 23,85	900 900	900 1000	1	0.2	1	33454	2	1	****	EK
JUN 26,85	JUN 25,85	900 800	**** ****	1	32.0	1	33455	2	1	105	
JUN 27,85	JUN 26,85	800 800	1000 ****	1	6.0	1	33457	2	1	98	M
JUN 28,85	JUN 27,85	800 800	1100 ****	1	16.8	1	33459	2	1	102	
JUL 2,85	JUL 1,85	800 900	1430 1530	1	2.0	1	33460	2	1	88	C H
JUL 4,85	JUL 3,85	900 800	1600 ****	1	1.8	1	33461	2	1	97	
JUL 5,85	JUL 4,85	800 800	1700 1800	1	7.4	1	33462	2	1	92	CM
JUL 6,85	JUL 5,85	900 900	1600 ****	1	3.6	1	33463	2	1	88	HM
JUL 7,85	JUL 6,85	900 900	500 630	1	13.8	1	33464	2	1	118	C C
JUL 8,85	JUL 7,85	900 800	2300 ****	1	11.8	1	33465	2	1	92	C HCM
JUL 10,85	JUL 9,85	800 800	930 1100	1	0.6	1	33468	2	1	72	
JUL 12,85	JUL 10,85	800 900	**** ****	1	0.4	1	33469	2	1	124	NZ
JUL 14,85	JUL 13,85	800 800	**** ****	1	2.4	1	33470	2	1	91	H
JUL 15,85	JUL 14,85	800 800	1900 2100	1	1.8	1	33471	2	1	79	HM
JUL 16,85	JUL 15,85	800 800	1000 1130	1	1.2	1	33472	2	1	88	HM
JUL 18,85	JUL 17,85	800 800	**** 800	1	4.2	1	33473	2	1	102	
JUL 19,85	JUL 18,85	800 800	1530 1700	1	4.4	1	33474	2	1	99	HM
JUL 20,85	JUL 19,85	800 800	**** ****	1	7.2	1	33475	2	1	93	HCM

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
MAY 13,85	MAY 11,85	838.0	12.6	*****	5.27	*****	0.0310	2.40	0.37
MAY 15,85	MAY 14,85	134.0	UG 31.1	*****	4.37	*****	UG 0.0758	3.20	0.76
MAY 16,85	MAY 15,85	794.0	24.1	*****	4.40	*****	0.0634	2.40	0.46
MAY 17,85	MAY 16,85	*****	*****	*****	*****	*****	*****	*****	*****
MAY 19,85	MAY 17,85	277.0	7.8	*****	6.33	*****	0.0188	1.25	0.21
MAY 21,85	MAY 19,85	*****	*****	*****	*****	*****	*****	*****	*****
MAY 24,85	MAY 23,85	117.0	14.9	*****	UG 6.97	*****	0.0188	2.00	0.46
MAY 26,85	MAY 25,85	311.0	4.3	*****	5.40	*****	0.0224	0.35	0.08
MAY 30,85	MAY 29,85	490.0	12.0	*****	4.77	*****	0.0406	1.10	0.22
MAY 31,85	MAY 30,85	427.0	10.3	*****	4.86	*****	0.0366	0.90	0.19
JUN 2,85	JUN 1,85	70.0	9.5	*****	5.00	*****	0.0313	0.95	0.16
JUN 5,85	JUN 4,85	288.0	12.8	*****	4.79	*****	0.0406	1.35	0.21
JUN 7,85	JUN 6,85	143.0	17.8	*****	UG 7.22	*****	0.0182	1.90	0.60
JUN 9,85	JUN 8,85	305.0	16.7	*****	UG 7.46	*****	0.0135	0.70	0.20
JUN 13,85	JUN 12,85	92.0	5.2	*****	5.51	*****	0.0200	0.85	<W 0.01
JUN 16,85	JUN 15,85	424.0	16.5	*****	5.02	*****	0.0314	1.95	0.44
JUN 17,85	JUN 16,85	513.0	14.8	*****	4.74	*****	0.0398	2.05	0.12
JUN 18,85	JUN 17,85	1205.0	LG 2.1	*****	5.89	*****	0.0164	0.20	<W 0.01
JUN 19,85	JUN 18,85	*****	*****	*****	*****	*****	*****	*****	*****
JUN 21,85	JUN 20,85	802.0	12.6	*****	UG 7.13	*****	0.0182	1.60	0.53
JUN 22,85	JUN 21,85	1901.0	6.4	*****	5.48	*****	0.0233	1.15	0.23
JUN 23,85	JUN 22,85	47.0	4.4	*****	UG 6.73	*****	0.0166	0.45	<W 0.01
JUN 24,85	JUN 23,85	*****	*****	*****	*****	*****	*****	*****	*****
JUN 26,85	JUN 25,85	2174.0	9.1	*****	4.91	*****	0.0328	0.75	0.29
JUN 27,85	JUN 26,85	379.0	7.3	*****	4.87	*****	0.0335	0.65	0.09
JUN 28,85	JUN 27,85	1100.0	19.5	*****	4.51	*****	0.0554	2.35	0.33
JUL 2,85	JUL 1,85	113.0	13.3	*****	5.12	*****	0.0273	1.55	0.33
JUL 4,85	JUL 3,85	113.0	22.1	*****	4.67	*****	0.0521	1.65	0.74
JUL 5,85	JUL 4,85	439.0	5.1	*****	5.17	*****	0.0266	0.20	0.07
JUL 6,85	JUL 5,85	204.0	12.6	*****	4.60	*****	0.0557	0.75	0.10
JUL 7,85	JUL 6,85	1050.0	8.1	*****	6.00	*****	0.0228	0.80	0.21
JUL 8,85	JUL 7,85	703.0	5.0	*****	5.74	*****	0.0224	0.35	0.07
JUL 10,85	JUL 9,85	28.0	17.0	*****	4.78	*****	*****	1.75	0.37
JUL 12,85	JUL 10,85	32.0	15.9	*****	UG 7.35	*****	0.0150	1.15	0.30
JUL 14,85	JUL 13,85	141.0	10.9	*****	UG 6.46	*****	0.0189	1.60	0.36
JUL 15,85	JUL 14,85	92.0	5.9	*****	5.35	*****	0.0235	0.55	0.13
JUL 16,85	JUL 15,85	68.0	LG 2.1	*****	5.35	*****	0.0229	<T 0.15	<T 0.02
JUL 18,85	JUL 17,85	276.0	14.0	*****	4.61	*****	0.0465	1.35	0.28
JUL 19,85	JUL 18,85	282.0	8.6	*****	4.80	*****	0.0390	0.75	0.11
JUL 20,85	JUL 19,85	432.0	4.2	*****	6.01	*****	0.0218	0.30	0.11

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIUM MG/L	POTASSIUM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
MAY 13,85	MAY 11,85	0.53	0.05	0.080	0.045	0.035	0.570	0.0054
MAY 15,85	MAY 14,85	0.87	0.14	0.120	0.075	0.080	0.345	0.0427
MAY 16,85	MAY 15,85	0.33	0.05	0.060	0.035	<T 0.015	0.325	0.0398
MAY 17,85	MAY 16,85	*****	*****	*****	*****	*****	*****	*****
MAY 19,85	MAY 17,85	0.43	LG 0.01	0.100	0.080	<T 0.015	0.295	0.0005
MAY 21,85	MAY 19,85	*****	*****	*****	*****	*****	*****	*****
MAY 24,85	MAY 23,85	UG 1.37	0.04	0.335	0.105	0.030	0.550	LG 0.0001
MAY 26,85	MAY 25,85	0.17	<W 0.01	0.025	0.045	<T 0.020	<W 0.005	0.0040
MAY 30,85	MAY 29,85	0.06	<W 0.01	0.015	0.045	<T 0.015	0.230	0.0170
MAY 31,85	MAY 30,85	0.07	<W 0.01	<T 0.010	0.030	<T 0.015	0.190	0.0138
JUN 2,85	JUN 1,85	0.15	<T 0.02	0.030	0.075	0.040	0.220	0.0100
JUN 5,85	JUN 4,85	0.11	<T 0.02	0.025	0.055	0.025	0.255	0.0162
JUN 7,85	JUN 6,85	UG 1.48	<T 0.03	0.300	0.030	0.035	0.950	LG 0.0001
JUN 9,85	JUN 8,85	UG 2.79	<T 0.05	0.395	0.130	0.060	0.105	LG 0.0000
JUN 13,85	JUN 12,85	0.27	0.07	0.050	0.125	0.035	<W 0.005	0.0031
JUN 16,85	JUN 15,85	0.30	0.08	0.055	0.040	<T 0.010	0.540	0.0095
JUN 17,85	JUN 16,85	0.14	<T 0.04	0.020	0.045	0.040	0.310	0.0182
JUN 18,85	JUN 17,85	0.05	<W 0.01	<T 0.010	0.025	0.035	<W 0.005	0.0013
JUN 19,85	JUN 18,85	*****	*****	*****	*****	*****	*****	*****
JUN 21,85	JUN 20,85	UG 1.33	0.09	0.165	0.085	<T 0.015	0.805	LG 0.0001
JUN 22,85	JUN 21,85	0.22	<T 0.06	0.035	0.045	0.035	0.355	0.0033
JUN 23,85	JUN 22,85	*****	0.24	*****	*****	*****	0.140	LG 0.0002
JUN 24,85	JUN 23,85	*****	*****	*****	*****	*****	*****	*****
JUN 26,85	JUN 25,85	0.18	0.13	0.025	0.030	0.090	0.165	0.0123
JUN 27,85	JUN 26,85	0.04	<T 0.04	<T 0.005	<T 0.010	<T 0.015	0.140	0.0135
JUN 28,85	JUN 27,85	0.22	0.09	0.020	0.025	0.050	0.330	0.0309
JUL 2,85	JUL 1,85	0.14	0.07	0.035	0.075	<T 0.015	0.465	0.0076
JUL 4,85	JUL 3,85	0.49	0.20	0.095	0.060	0.110	0.490	0.0214
JUL 5,85	JUL 4,85	0.06	<T 0.03	<T 0.010	<T 0.015	<T 0.020	0.035	0.0068
JUL 6,85	JUL 5,85	0.10	0.18	<T 0.010	0.080	0.050	0.055	0.0251
JUL 7,85	JUL 6,85	0.17	<T 0.06	0.045	0.045	0.035	0.365	0.0010
JUL 8,85	JUL 7,85	0.22	<T 0.03	0.050	0.045	0.040	0.130	0.0018
JUL 10,85	JUL 9,85	*****	0.23	*****	*****	*****	*****	0.0166
JUL 12,85	JUL 10,85	*****	0.18	*****	*****	*****	*****	LG 0.0000
JUL 14,85	JUL 13,85	0.89	0.10	0.155	0.105	0.060	0.410	LG 0.0003
JUL 15,85	JUL 14,85	0.24	0.32	0.035	UG 0.210	UG 0.285	0.155	0.0045
JUL 16,85	JUL 15,85	0.14	<T 0.04	<T 0.015	0.025	<T 0.020	<W 0.005	0.0045
JUL 18,85	JUL 17,85	0.10	<T 0.04	<T 0.010	0.025	<T 0.005	0.330	0.0245
JUL 19,85	JUL 18,85	0.08	0.07	<T 0.010	0.025	<T 0.010	0.160	0.0158
JUL 20,85	JUL 19,85	0.13	<T 0.06	0.040	0.025	<T 0.005	0.205	0.0010

ONTARIO MINISTRY OF THE ENVIRONMENT
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APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
JUL 23,85	JUL 22,85	800 800	**** ****	1	0.6	1	33476	2	1	80	
JUL 24,85	JUL 23,85	800 800	**** ****	1	10.2	1	33477	2	1	95	
JUL 25,85	JUL 24,85	800 800	**** ****	1	11.6	1	33478	2	1	99	HCM
JUL 30,85	JUL 29,85	800 800	930 1100	1	1.6	1	33481	2	1	60	CM
AUG 3,85	AUG 2,85	900 900	1100 1230	1	7.8	1	33483	2	1	91	C
AUG 5,85	AUG 4,85	900 800	1600 ****	1	18.0	1	33484	2	1	94	
AUG 6,85	AUG 5,85	800 800	**** ****	1	47.8	1	33487	2	1	99	C
AUG 9,85	AUG 7,85	800 800	**** ****	1	11.6	1	33491	2	1	95	HZ
AUG 12,85	AUG 9,85	800 800	**** ****	1	8.6	1	33492	2	1	98	HZ
AUG 13,85	AUG 12,85	800 800	**** ****	1	13.8	1	33493	2	1	99	
AUG 17,85	AUG 16,85	800 900	**** ****	1	16.6	1	33496	2	1	105	N
AUG 18,85	AUG 17,85	900 830	**** ****	1	8.2	1	33497	2	1	86	HM
AUG 19,85	AUG 18,85	830 800	**** ****	1	2.8	1	33498	2	1	80	HM
AUG 20,85	AUG 19,85	800 800	**** ****	1	2.0	1	33499	2	1	****	
AUG 23,85	AUG 22,85	800 800	1430 1600	1	2.0	1	31186	2	1	105	C H
AUG 24,85	AUG 23,85	800 1200	1800 2400	1	0.4	1	31187	2	1	54	E
AUG 29,85	AUG 28,85	800 800	2000 ****	1	1.6	1	31189	2	1	81	CD
SEP 1,85	AUG 31,85	1200 1000	1200 1800	1	8.0	1	31190	2	1	101	D
SEP 3,85	SEP 2,85	800 800	1200 ****	1	20.0	1	31191	2	1	100	
SEP 5,85	SEP 4,85	800 800	1200 1330	1	1.0	1	31194	2	1	79	
SEP 6,85	SEP 5,85	800 800	**** ****	1	1.2	1	31195	2	1	83	
SEP 17,85	SEP 16,85	800 800	**** ****	1	34.4	1	31197	2	1	101	
SEP 18,85	SEP 17,85	800 800	**** ****	1	1.0	1	31198	2	1	67	C
SEP 19,85	SEP 18,85	800 800	1200 1300	1	0.6	1	31199	2	1	75	
SEP 20,85	SEP 19,85	800 800	1500 800	1	53.0	1	31200	2	1	107	C HM
SEP 21,85	SEP 20,85	800 800	**** ****	1	6.2	1	31201	2	1	89	C
SEP 23,85	SEP 22,85	800 800	**** 800	1	****	1	31202	2	1	****	D
SEP 24,85	SEP 23,85	800 800	**** ****	3	34.1	1	31203	2	1	36	NCH
SEP 25,85	SEP 24,85	800 800	800 1300	1	1.0	1	31204	2	1	60	
SEP 28,85	SEP 27,85	800 900	**** ****	1	1.8	1	31205	2	1	63	C
SEP 30,85	SEP 29,85	800 800	800 800	1	0.1	1	31206	2	1	****	EK
OCT 1,85	SEP 30,85	800 1000	1100 800	2	****	1	31207	2	1	****	C
OCT 2,85	OCT 1,85	1000 900	1000 1600	3	1.8	1	31208	2	1	81	M
OCT 3,85	OCT 2,85	900 800	900 1000	1	0.2	1	31209	2	1	****	C
OCT 7,85	OCT 6,85	800 800	1100 1700	1	5.0	1	31210	2	1	59	EK
OCT 8,85	OCT 7,85	800 800	1400 800	3	23.0	1	31211	2	1	119	C
OCT 9,85	OCT 8,85	800 800	800 1400	3	2.8	1	31214	2	1	77	HCM
OCT 12,85	OCT 11,85	800 800	900 1500	1	12.0	1	31215	2	1	102	C
OCT 15,85	OCT 14,85	800 800	1500 ****	3	3.0	1	31216	2	1	8	N
OCT 18,85	OCT 17,85	800 800	1600 2000	1	1.8	1	31217	2	1	86	

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STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
JUL 23,85	JUL 22,85	31.0	16.7	*****	5.26	*****	0.0360	1.95	0.58
JUL 24,85	JUL 23,85	622.0	8.0	*****	5.68	*****	0.0197	0.85	0.31
JUL 25,85	JUL 24,85	740.0	4.7	*****	5.18	*****	0.0257	0.30	<T 0.03
JUL 30,85	JUL 29,85	62.0	3.5	*****	6.27	*****	0.0173	0.20	<T 0.02
AUG 3,85	AUG 2,85	458.0	15.0	*****	4.82	*****	0.0366	1.65	0.46
AUG 5,85	AUG 4,85	1089.0	22.0	*****	4.45	*****	0.0626	2.30	0.16
AUG 6,85	AUG 5,85	3058.0	5.1	*****	5.17	*****	0.0239	0.45	<T 0.02
AUG 9,85	AUG 7,85	711.0	7.8	*****	5.45	*****	0.0265	1.15	0.26
AUG 12,85	AUG 9,85	545.0	6.5	*****	5.20	*****	0.0275	0.65	0.27
AUG 13,85	AUG 12,85	880.0	11.5	*****	4.61	*****	0.0452	1.00	0.20
AUG 17,85	AUG 16,85	1123.0	18.2	*****	4.62	*****	0.0492	2.05	0.38
AUG 18,85	AUG 17,85	454.0	4.0	*****	5.27	*****	0.0265	0.40	0.06
AUG 19,85	AUG 18,85	144.0	LG 1.3	*****	5.60	*****	0.0201	<T 0.05	<W 0.01
AUG 20,85	AUG 19,85	*****	*****	*****	*****	*****	*****	*****	*****
AUG 23,85	AUG 22,85	135.0	23.3	*****	5.64	*****	0.0264	4.40	0.77
AUG 24,85	AUG 23,85	14.0	*****	*****	*****	*****	*****	*****	*****
AUG 29,85	AUG 28,85	84.0	8.3	*****	4.86	*****	0.0320	0.75	0.15
SEP 1,85	AUG 31,85	522.0	11.8	*****	5.12	*****	0.0262	0.95	0.53
SEP 3,85	SEP 2,85	1286.0	13.2	*****	4.70	*****	0.0375	1.45	0.22
SEP 5,85	SEP 4,85	51.0	11.5	*****	UG 6.61	*****	0.0177	1.55	0.43
SEP 6,85	SEP 5,85	64.0	10.4	*****	4.84	*****	0.0328	0.65	0.32
SEP 17,85	SEP 16,85	2236.0	10.5	*****	4.87	*****	0.0326	1.10	0.15
SEP 18,85	SEP 17,85	43.0	UG 32.0	*****	4.57	*****	0.0576	UG 5.80	0.48
SEP 19,85	SEP 18,85	29.0	*****	*****	5.17	*****	0.0301	*****	*****
SEP 20,85	SEP 19,85	3645.0	7.0	*****	5.54	*****	0.0204	0.85	0.17
SEP 21,85	SEP 20,85	357.0	3.5	*****	6.11	*****	0.0147	<T 0.15	<T 0.05
SEP 23,85	SEP 22,85	119.0	23.0	*****	4.37	*****	UG 0.0673	1.40	0.48
SEP 24,85	SEP 23,85	796.0	2.7	*****	5.64	*****	0.0181	<T 0.10	<T 0.02
SEP 25,85	SEP 24,85	39.0	6.8	*****	5.17	*****	0.0245	0.85	<T 0.03
SEP 28,85	SEP 27,85	73.0	7.2	*****	UG 6.40	*****	0.0174	0.75	0.18
SEP 30,85	SEP 29,85	*****	*****	*****	*****	*****	*****	*****	*****
OCT 1,85	SEP 30,85	1726.0	3.2	*****	5.28	*****	0.0218	0.25	<T 0.02
OCT 2,85	OCT 1,85	94.0	3.0	*****	6.04	*****	0.0177	0.25	<W 0.01
OCT 3,85	OCT 2,85	*****	*****	*****	*****	*****	*****	*****	*****
OCT 7,85	OCT 6,85	190.0	12.9	*****	4.92	*****	0.0339	1.60	0.28
OCT 8,85	OCT 7,85	1766.0	7.8	*****	4.97	*****	0.0285	0.50	0.12
OCT 9,85	OCT 8,85	139.0	24.7	*****	6.09	*****	0.0228	0.40	UG 1.14
OCT 12,85	OCT 11,85	789.0	6.3	*****	5.05	*****	0.0254	0.45	0.08
OCT 15,85	OCT 14,85	16.0	*****	*****	4.50	*****	0.0576	*****	*****
OCT 18,85	OCT 17,85	100.0	20.4	*****	4.81	*****	0.0397	2.80	0.55

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
JUL 23,85	JUL 22,85	*****	D 0.30	*****	*****	*****	*****	0.0055
JUL 24,85	JUL 23,85	0.18	<T 0.04	0.025	0.025	<T 0.015	0.420	0.0021
JUL 25,85	JUL 24,85	<T 0.04	<T 0.03	<T 0.005	<W 0.005	<W 0.005	0.100	0.0066
JUL 30,85	JUL 29,85	0.22	<T 0.06	0.065	0.030	0.030	<W 0.005	0.0005
AUG 3,85	AUG 2,85	0.45	0.10	0.070	0.025	0.050	0.300	0.0151
AUG 5,85	AUG 4,85	0.07	<T 0.04	<T 0.010	<T 0.005	<T 0.010	0.250	0.0355
AUG 6,85	AUG 5,85	<T 0.02	<T 0.04	<W 0.005	<T 0.005	<W 0.005	0.080	0.0068
AUG 9,85	AUG 7,85	0.28	<W 0.01	0.030	0.060	0.020	0.430	0.0035
AUG 12,85	AUG 9,85	0.36	<T 0.05	0.050	0.055	0.045	0.145	0.0063
AUG 13,85	AUG 12,85	0.14	<T 0.04	<T 0.010	0.025	<T 0.010	0.135	0.0245
AUG 17,85	AUG 16,85	*****	0.11	*****	*****	*****	*****	0.0240
AUG 18,85	AUG 17,85	0.09	<T 0.01	0.015	0.065	0.040	0.080	0.0054
AUG 19,85	AUG 18,85	0.06	<T 0.01	<T 0.010	<T 0.015	<T 0.015	<W 0.005	0.0025
AUG 20,85	AUG 19,85	*****	*****	*****	*****	*****	*****	*****
AUG 23,85	AUG 22,85	0.63	0.17	0.140	0.030	0.035	1.590	0.0023
AUG 24,85	AUG 23,85	*****	*****	*****	*****	*****	*****	*****
AUG 29,85	AUG 28,85	0.24	0.09	0.035	<T 0.015	0.045	0.055	0.0138
SEP 1,85	AUG 31,85	0.40	0.20	0.060	0.055	0.050	0.315	0.0076
SEP 3,85	SEP 2,85	0.12	0.08	<T 0.010	<T 0.015	<T 0.015	0.325	0.0200
SEP 5,85	SEP 4,85	*****	0.11	*****	*****	*****	0.775	LG 0.0002
SEP 6,85	SEP 5,85	0.12	<T 0.06	0.030	<T 0.015	0.035	0.155	0.0145
SEP 17,85	SEP 16,85	<T 0.04	<T 0.05	<T 0.010	<T 0.005	<T 0.005	0.215	0.0135
SEP 18,85	SEP 17,85	*****	0.14	*****	*****	*****	1.480	0.0269
SEP 19,85	SEP 18,85	*****	*****	*****	*****	*****	*****	0.0068
SEP 20,85	SEP 19,85	0.07	0.08	0.030	<T 0.015	0.055	D 0.730	0.0029
SEP 21,85	SEP 20,85	<T 0.02	0.18	<T 0.010	0.115	0.135	0.025	0.0008
SEP 23,85	SEP 22,85	0.11	0.10	0.020	0.030	0.040	0.100	0.0427
SEP 24,85	SEP 23,85	<T 0.01	<T 0.03	<T 0.010	<T 0.005	<W 0.005	<W 0.005	0.0023
SEP 25,85	SEP 24,85	*****	0.07	*****	*****	*****	0.075	0.0068
SEP 28,85	SEP 27,85	0.25	0.32	0.050	UG 0.295	UG 0.220	0.145	LG 0.0004
SEP 30,85	SEP 29,85	*****	*****	*****	*****	*****	*****	*****
OCT 1,85	SEP 30,85	0.08	<T 0.03	<T 0.005	<W 0.005	<T 0.015	<W 0.005	0.0052
OCT 2,85	OCT 1,85	0.12	<T 0.06	0.020	0.030	0.040	<W 0.005	0.0009
OCT 3,85	OCT 2,85	*****	*****	*****	*****	*****	*****	*****
OCT 7,85	OCT 6,85	0.24	<T 0.06	0.045	<T 0.020	0.030	0.395	0.0120
OCT 8,85	OCT 7,85	0.10	0.08	<T 0.010	<W 0.005	<T 0.010	0.060	0.0107
OCT 9,85	OCT 8,85	1.15	0.08	0.100	0.130	0.040	1.360	0.0008
OCT 12,85	OCT 11,85	0.15	<T 0.03	<T 0.010	<W 0.005	<T 0.010	<T 0.010	0.0089
OCT 15,85	OCT 14,85	*****	*****	*****	*****	*****	*****	0.0316
OCT 18,85	OCT 17,85	0.41	0.07	0.050	0.040	0.030	0.790	0.0155

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

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REMOVAL DATE	EXPOSURE DATE	SAMPLING START/END HR. HR.	PRECIP START/END HR. HR.	SAMPLE TYPE 01-RAIN 02-SNOW 03-COMP/04-OTHER	GAUGE DEPTH(MM)	GAUGE TYPE 01-STD. 02-NIPHER	SAMPLE NUMBER	PROJECT CODE 02-APIOS 03-SPECIAL	SUBPROJECT CODE 01-MOE 03-AES	SAMPLER EFFICI- ENCY (%)	COMMENTS FIELD OFFICE
OCT 23,85	OCT 22,85	800 800	**** 800	1	1.4	1	31221	2	1	86	C H
OCT 24,85	OCT 23,85	800 800	800 1400	1	1.8	1	31222	2	1	87	
OCT 30,85	OCT 29,85	800 800	1100 1400	1	3.2	1	31223	2	1	78	C H
NOV 2,85	NOV 1,85	800 800	****	1	1.2	1	31224	2	1	228	C NHM
NOV 12,85	NOV 11,85	800 1300	2000 1100	2	****	2	31225	2	1	****	C C
NOV 19,85	NOV 18,85	800 1300	1900 1300	2	40.0	2	31226	2	1	27	C N
NOV 20,85	NOV 19,85	1300 1300	1300 1800	2	****	2	31227	2	1	****	C C
NOV 21,85	NOV 20,85	1300 1300	1300 ****	2	2.0	2	31228	2	1	****	EK
NOV 23,85	NOV 22,85	1300 1300	1300 1200	2	9.2	2	31229	2	1	45	C NCM
NOV 25,85	NOV 24,85	1300 1300	1600 1200	2	5.4	2	31230	2	1	U 41	CG C
NOV 27,85	NOV 26,85	1100 1100	1100 1400	2	1.0	2	31231	2	1	****	EK
NOV 30,85	NOV 29,85	1300 1300	400 1400	2	3.0	2	31235	2	1	****	EKF
DEC 5,85	DEC 4,85	1300 1300	****	2	2.0	2	31236	2	1	U 130	FM
DEC 10,85	DEC 9,85	900 900	****	2	****	2	31237	2	1	****	Q
DEC 22,85	DEC 21,85	1300 1300	2200 ****	2	7.4	2	31238	2	1	39	C N
DEC 26,85	DEC 23,85	900 900	****	2	2.5	2	31239	2	1	48	CDQ NHCZ
DEC 28,85	DEC 27,85	900 900	****	2	2.6	2	31240	2	1	24	C NHCM
DEC 31,85	DEC 30,85	900 900	****	2	1.0	2	31241	2	1	****	EK

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

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REMOVAL DATE	EXPOSURE DATE	VOLUME ML	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	TOTAL H+ GRAN MG/L	SULPHATE MG/L	NITRATE AS N MG/L
OCT 23,85	OCT 22,85	78.0	21.7	*****	4.55	*****	0.0534	2.75	0.35
OCT 24,85	OCT 23,85	101.0	21.6	*****	4.97	*****	0.0346	3.95	0.39
OCT 30,85	OCT 29,85	161.0	14.5	*****	UG 6.50	*****	0.0163	2.50	0.44
NOV 2,85	NOV 1,85	176.0	7.9	*****	4.88	*****	0.0332	0.65	0.18
NOV 12,85	NOV 11,85	948.0	7.7	*****	5.36	*****	0.0243	0.65	0.23
NOV 19,85	NOV 18,85	704.0	11.3	*****	4.70	*****	0.0393	0.90	0.16
NOV 20,85	NOV 19,85	155.0	7.4	*****	5.06	*****	0.0254	0.30	0.16
NOV 21,85	NOV 20,85	*****	*****	*****	*****	*****	*****	*****	*****
NOV 23,85	NOV 22,85	271.0	LG 2.8	*****	5.88	*****	0.0169	<T 0.10	<W 0.01
NOV 25,85	NOV 24,85	144.0	5.2	*****	5.15	*****	0.0266	<T 0.15	0.09
NOV 27,85	NOV 26,85	*****	*****	*****	*****	*****	*****	*****	*****
NOV 30,85	NOV 29,85	*****	*****	*****	*****	*****	*****	*****	*****
DEC 5,85	DEC 4,85	167.0	20.6	*****	4.39	*****	0.0639	0.55	0.61
DEC 10,85	DEC 9,85	22.0	*****	*****	UG 7.30	*****	0.0202	*****	*****
DEC 22,85	DEC 21,85	189.0	17.7	*****	4.59	*****	0.0502	1.30	0.36
DEC 26,85	DEC 23,85	78.0	6.9	*****	5.35	*****	0.0233	0.30	0.25
DEC 28,85	DEC 27,85	41.0	4.6	*****	6.15	*****	0.0186	0.30	0.06
DEC 31,85	DEC 30,85	*****	*****	*****	*****	*****	*****	*****	*****

ONTARIO MINISTRY OF THE ENVIRONMENT
DAILY SAMPLING ANALYSIS RESULTS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY/AEROCHEM #14

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REMOVAL DATE	EXPOSURE DATE	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
OCT 23,85	OCT 22,85	0.28	<W 0.01	0.065	0.165	0.120	0.525	0.0282
OCT 24,85	OCT 23,85	0.34	<W 0.01	0.045	0.075	0.050	1.030	0.0107
OCT 30,85	OCT 29,85	0.51	<W 0.01	0.105	0.090	0.075	0.595	LG 0.0003
NOV 2,85	NOV 1,85	0.24	<W 0.01	0.040	0.060	0.075	0.025	0.0132
NOV 12,85	NOV 11,85	0.17	<W 0.01	0.020	<T 0.020	0.020	0.215	0.0044
NOV 19,85	NOV 18,85	0.15	<W 0.01	<T 0.015	<T 0.005	0.020	0.055	0.0200
NOV 20,85	NOV 19,85	0.07	<T 0.02	<T 0.010	<W 0.005	0.045	0.020	0.0087
NOV 21,85	NOV 20,85	*****	*****	*****	*****	*****	*****	*****
NOV 23,85	NOV 22,85	<T 0.03	<W 0.01	<T 0.005	<W 0.005	0.020	<W 0.005	0.0013
NOV 25,85	NOV 24,85	<T 0.03	<W 0.01	<T 0.005	<T 0.005	0.025	<W 0.005	0.0071
NOV 27,85	NOV 26,85	*****	*****	*****	*****	*****	*****	*****
NOV 30,85	NOV 29,85	*****	*****	*****	*****	*****	*****	*****
DEC 5,85	DEC 4,85	0.10	0.08	<T 0.010	<T 0.010	0.025	0.025	0.0407
DEC 10,85	DEC 9,85	*****	*****	*****	*****	*****	*****	LG 0.0001
DEC 22,85	DEC 21,85	0.11	0.15	0.015	0.085	0.100	0.190	0.0257
DEC 26,85	DEC 23,85	0.20	0.19	0.030	0.070	0.120	0.020	0.0045
DEC 28,85	DEC 27,85	0.14	0.23	0.025	0.080	0.130	<W 0.005	0.0007
DEC 31,85	DEC 30,85	*****	*****	*****	*****	*****	*****	*****



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